

COURSE OUTCOMES

Paper code	Paper name	Course outcome
Paper 1	Oracle & Developer 2000	C1.Enhance the knowledge and understanding of Database analysis and design. C2.Preparation of background materials and documentation needed for Technical Support using SQL and PL/SQL. C3. Solve Database problems using Oracle 10g SQL and PL/SQL. This will include the use of Procedures, Functions, Packages, and Triggers.
Paper 2	Multi User Operating System	C1. Identify the basic Unix general purpose commands. C2.Apply and change the ownership and file permissions using advance Unix commands. C3.Implement shell scripts programming C4.Identify the basic Unix general purpose commands.
Paper 3	Computer based numerical & Optimization Tech.	C1. Students will able to understand the fundamental concepts of differential equations and vector calculus and their role in modern applied mathematics and real-world contexts. C2. Demonstrate accurate and efficient use of techniques involved in solving differential equations and applying vector differential operators. C3.Demonstrate capacity for mathematical reasoning through analyzing, proving and explaining concepts from the theory of differential equations.
Paper 4.	Computer Programming Using Java	C1. Java is the most popular platform, which is used to develop several applications for the systems as well as embedded devices like mobile, laptops, tablets and many more. C2. It is an object-oriented programming language and has a simple object model, as it has derived from C and C++. It provides a virtual machine, which is accumulated with byte code and can run on any system.
Paper 5.	Management Information System	C1. Understand and apply design principles in Information Systems Understand and apply system development & project management principles C2.Effectively evaluate technology alternatives to solve problems in an MIS context C3.Effectively communicate to both business and IT professionals
Paper 6.	Computer oriented Accounting Systems	C1.Acquire conceptual knowledge of basics of accounting C2. Identify events that need to be recorded in the accounting records. C3.Describe the role of accounting information and its limitations C4.Equip with the knowledge of accounting process and preparation of final accounts of sole trader

  
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BCA 2<sup>ND</sup> YEAR

Paper code	Paper name	Course outcome
Paper 1	Object Oriented Programming With C++	<p>C1.To differentiate between object oriented and modular programming</p> <p>C2. To understand and develop programs in C++ language.</p> <p>C3. To develop programs using techniques of inheritance and polymorphism.</p> <p>C4.To solve problems using object oriented approach of programming technique.</p>
Paper 2	Database Management System	<p>C1.To Analyze Data Base design methodology.</p> <p>C2.Acquire knowledge in fundamentals of Data Base Management System.</p> <p>C3.Be able to analyze the difference between traditional file system and DBMS.</p> <p>C4.Able to handle with different Data Base languages.</p>
Paper 3	Data Communication And Networking	<p>C1.Describe the functions of each layer in OSI and TCP/IP model.</p> <p>C2.Classify the routing protocols and analyze how to assign the IP addresses for the given network.</p> <p>C3.Explain the types of transmission media with real time applications.</p> <p>C4.Apply the knowledge of cryptographic utilities and authentication mechanisms to design secure applications.</p>
Paper 4.	Web Technology	<p>C1.Analyze a web page and identify its elements and attributes.</p> <p>C2.Create web pages using XHTML and Cascading Style Sheets.</p> <p>C3.Build dynamic web pages using JavaScript (Client side programming).</p> <p>C4.Implement interactive web page(s) using HTML, CSS and JavaScript.</p>
Paper 5.	Visual Basic	<p>C1.Design, create, build, and debug Visual Basic applications.</p> <p>C2.Explore Visual Basic's Integrated Development Environment (IDE).</p> <p>C3 Implement syntax rules in Visual Basic programs.</p> <p>C4 Explain variables and data types used in program development. Apply arithmetic operations for displaying numeric output.</p>
Paper 6.	Computer Organisation & SSAD	<p>C1.Master the binary and hexadecimal number systems including computer arithmetic,</p> <p>C2.Be familiar with the history and development of modern computers,</p> <p>C3.Understand the fundamentals of different instruction set architectures and their relationship to the CPU design.</p> <p>C4.Understand the principles and the implementation of computer arithmetic.</p>

  
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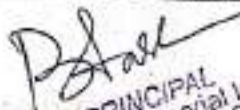


**BCA 1ST YEAR**

Paper code	Paper name	Course outcome
Paper 1	Computer Fundamental & Operation Systems	C1.To Bridge the fundamental concepts of computers with the present level of knowledge of the students. C2. To Understand binary, hexadecimal and octal number systems and their arithmetic. C3.To Understand how logic circuits and Boolean algebra forms as the basics of digital computer.
Paper 2	Office Automation	C1.students would be able to documents, spreadsheets, make small presentations and would be acquainted with internet. C2. To become proficient in the use of software applications as used in an office environment. Students receive a strong foundation in software and hardware C3. to record, code, sort, calculate, summarize, store and communicate information.
Paper 3	Programming Development Concept & Foxpro	C1. Foxpro is a text-based language that programmers use for database management. C2.Visual Foxpro, the successor to Foxpro programming, is often used for application development. C3,More often, programmers use Foxpro for database management. Foxpro delivers a fast, easy way to query databases and get answers.
Paper 4.	C With Data Structure	C1.To understand basic data structures such as array, linked list, stack and queue. C2. To understand and implement graphs and trees. C3. To evaluate the time and space complexities of algorithms. C4. To implement hashing and sorting techniques
Paper 5.	Functional English	C1.to build in students Functional English skills through advance study and knowledge of general topics such as Critical Reasoning, C2.Writing & Presentation, Communication Skills in English, Methodology-Humanities, Reading Literature in English,
Paper 6.	Mathematics - 1	C1.Students will understand numbers, way of representing numbers, relationships among numbers, and number systems.  C2.Students will use mathematical models to represent and understand quantitative relationships.

**BBA Course Outcomes**

BBA 1 <sup>ST</sup> SEM			
Code No	Year	Course Name	Course Outcomes
	1	Environmental science	C1.Understand core concepts and methods from ecological and physical sciences and their application


  
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			<p>in environmental problem-solving.</p> <p>C2.Appreciate key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.</p> <p>C3.Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.</p> <p>C4.Appreciate that one can apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.</p>
	1	Fundamentals of Management & Organizational Behavior	<p>C1.Recognize the role of a manager and how it relates to the organization's mission.</p> <p>C2.Define management, its four basic functions and skills.</p> <p>C3.Recognize the concept of social responsiveness and its benefits.</p> <p>C4.Explain the relationship between strategic, tactical, and operational plans</p> <p>C5.Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.</p> <p>C6.Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.</p>
	1	Statistics for business decision	<p>C1.Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis</p> <p>C2.Critically evaluate the underlying assumptions of analysis tools</p> <p>C3.Understand and critically discuss the issues surrounding sampling and significance</p> <p>C4.Discuss critically the uses and limitations of statistical analysis</p> <p>C5.Solve a range of problems using the techniques covered.</p> <p>C6.Conduct basic statistical analysis of data.</p>
	1	Entrepreneurship development	<p>C1.Have the ability to discern distinct entrepreneurial traits</p> <p>C2.Know the parameters to assess opportunities and constraints for new business ideas</p> <p>C3.Understand the systematic process to select and screen a business idea</p> <p>C4.Design strategies for successful implementation of ideas</p> <p>C5.Write a business plan</p>


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		BBA 2 <sup>ND</sup> YEAR	
	201	Cost and Management Accounting	<p>C1.Understand various costing systems and management systems.</p> <p>C2.Evaluate the costs and benefits of different conventional and contemporary costing systems.</p> <p>C3.Differentiate methods of schedule costs as per unit of production.</p> <p>C4.Differentiate methods of calculating stock consumption.</p> <p>C5.Identify the specifics of different costing methods.</p> <p>C6.Analyze cost-volume-profit techniques to determine optimal managerial decisions.</p> <p>C7.Apply cost accounting methods for both manufacturing and service industry.</p>
	202	Managerial Economics	<p>C1.To apply marginal analysis to the "firm" under different market conditions.</p> <p>C2.To analyze the causes and consequences of different market conditions.</p> <p>C3.To integrate the concept of price and output decisions of firms under various market structure.</p> <p>C4.Analyze the demand and supply conditions and assess the position of a company</p> <p>C5.Design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products and the structures of the markets.</p>
	203	Business And Labour Laws	<p>C1.To understand the basic classification of law, principles of natural justice etc</p> <p>C2.To gain knowledge on the basics of contract law and its principles</p> <p>C3.To understand the various aspects of company law, the formation of company and its related legal aspects</p> <p>C4.To gain insight into the legal framework regarding various rights of consumers</p>
	204	Relational Database Management System	<p>C1.To enable students to understand the fundamentals of Database management system</p> <p>C2.To apply the table design and datasheet view feature to create a relational database with permanent relationships, input new data and edit existing data</p> <p>C3.To apply the query design feature with regard to the data available in database</p> <p>C4.To create printed reports of the data</p>
	205	Organization Behavior	<p>C1.Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.</p> <p>C2.Demonstrate the applicability of analyzing the</p>

  
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			<p>complexities associated with management of individual behavior in the organization.</p> <p>C3. Analyze the complexities associated with management of the group behavior in the organization.</p> <p>C4. Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization.</p>
	206	Quantitative Techniques For Management	<p>C1. To familiarize students with the application of mathematics in business.</p> <p>C2. To understand the presentation of data using graphs, charts etc</p> <p>C3. To familiarize students with the application of statistical techniques in business.</p> <p>C4. To enable students to apply the various statistical techniques in research analysis.</p>
	207	Operation Management	<p>C1. To familiarize with the production and operation management functions and its relation to the other management functions</p> <p>C2. To gain knowledge on the various aspects of operations management like material management, inventory management, work time and method study etc</p> <p>C3. To acquaint students with the decision making in planning, scheduling and controlling of productions and operations function</p> <p>C4. To gain insight into the productivity improvement in operations through layout engineering and quality management</p>
<b>BBA 3<sup>RD</sup> YEAR</b>			
	301	Financial Management	<p>C1. To familiarize with the roles and goals of financial function in the management of an enterprise</p> <p>C2. To develop knowledge on the capital structure, financial and operating leverage etc</p> <p>C3. To gain knowledge into working capital management and its related issues</p> <p>C4. To introduce students to the different tools of financial analysis and the role of long term financial decisions in organizational success</p>
	302	Human Resource Management	<p>C1. To gain knowledge on the various aspects of Human resources planning i.e. recruiting, man power sourcing, selection, placement etc.</p> <p>C2. To gain insight into the various sub systems of HR- Performance appraisal, Training and development, Performance and reward management etc.</p> <p>C3. To introduce students to the various components of HRM i.e. Industrial relations, employee grievance handling and redressal etc.</p>

  
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			C4.To apply the knowledge acquired in HRM to various life situations through case studies, role playing etc
	303	Entrepreneurship	C1.Understand the nature of entrepreneurship C2.Understand the function of the entrepreneur in the successful, commercial application of innovations C3.Confirm an entrepreneurial business idea. C4.Identify personal attributes that enable best use of entrepreneurial opportunities C5.Explore entrepreneurial leadership and management style
	304	Object Oriented Programming & E-Commerce	C1.Apply the concepts of object-oriented programming C2.Understand dynamic memory management techniques using pointers, constructors, destructors, etc. C3.Demonstrate an understanding of the foundations and importance of E-commerce C4.Analyze the impact of E-commerce on business models and strategy.
	305	Summer Internship And Viva Voce	C1.To undertake a problem centered study at a selected organization on any of the topics learned C2.To prepare a research report based on the collection, analysis and interpretation of the data. C3.To present the findings and propose suggestions.
	306	Advertising Sales And Distribution	C1.Identify and understand the various advertising media. C2.Demonstrate an understanding of the overall role advertising plays in the business world. C3.Course participants should be able to develop sales and distribution plans C4.Course participants should be able to link distribution with other marketing variables

### MCA COURSE OUTCOMES

MCA 1 <sup>ST</sup> SEM			
Code No	Semester	Course Name	Course Outcomes
MCA101	1	Problem Solving and Programming Using C	<ol style="list-style-type: none"> <li>1. The course aims to equip students with the ability to problem- solving through programming</li> <li>2. To identify the problem and design effective solution.</li> <li>3. It aims to train students in basics concepts of C programming</li> </ol>

  
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			4. To understand the concepts of static and dynamic programming
MCA102	1	Computer Organization and Architecture	<ol style="list-style-type: none"> <li>1. To expose the students to the basic architecture of a computer processing and organization</li> <li>2. To understand the working principle of 8085 and 8086 micro processor</li> <li>3. To understand the basic concepts of parallel computing</li> <li>4. To explain the general concepts in digital logic design, including logic elements, and their use in combinational and sequential logic circuit design</li> </ol>
MCA103	1	Business Information System	<ol style="list-style-type: none"> <li>1. This course will give a high level understanding of what information is, what business is and how information is key to successful execution of a business.</li> <li>2. It will help understanding the evolution of information system from a traditional way of dealing with information to a level how information is a business enabler.</li> <li>3. It exposes students to tools and techniques deployed to expedite the information processing and controlled dissemination of information.</li> <li>4. To brief the students of the working principle of various E-commerce based enterprises.</li> </ol>
MCA104	1	Computer Oriented Numerical Methods	<ol style="list-style-type: none"> <li>1. To provide conceptual understanding of various numerical methods</li> <li>2. To Apply numerical methods to find our solution of algebraic equations</li> <li>3. To train students on important theorems and different formulae for various numerical methods.</li> <li>4. To help students in understanding the fundamentals, concepts and practical use of numerical methods in the field of computer sciences and applications.</li> </ol>
MCA105	1	Engineering Economics	<ol style="list-style-type: none"> <li>1. To describe the role of economics in the decision making process.</li> <li>2. To understand the factors those affects production and learn how to evaluate.</li> <li>3. To understand the market structure and Banking system in India.</li> <li>4. To understand the basic foundations of engineering economics with respect to time value of money.</li> </ol>
MCA106	1	Business Communication	<ol style="list-style-type: none"> <li>1. To develop communication skills and soft skills of students</li> </ol>


  
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			<ol style="list-style-type: none"> <li>To enhance the ability of students to participate in group discussions and personal interviews</li> <li>To develop effective business writing skills</li> <li>To enable students to apply business communication strategies for effective work culture.</li> </ol>
<b>MCA 2<sup>ND</sup> SEM</b>			
MCA201	2	Data Structures using C	<ol style="list-style-type: none"> <li>To understand basic data structures such as array, linked list, stack and queue.</li> <li>To understand and implement graphs and trees.</li> <li>To evaluate the time and space complexities of algorithms.</li> <li>To implement hashing and sorting techniques</li> </ol>
MCA202	2	Object Oriented Programming using C++	<ol style="list-style-type: none"> <li>To differentiate between object oriented and modular programming</li> <li>To understand and develop programs in C++ language.</li> <li>To develop programs using techniques o inheritance and polymorphism.</li> <li>To solve problems using object oriented approach of programming technique.</li> </ol>
MCA203	2	Operating Systems	<ol style="list-style-type: none"> <li>To enable students to understand the basic components of a computer operating system</li> <li>To comprehend the interactions among the various components.</li> <li>To understand the policies for scheduling, deadlocks, memory management, synchronization, system calls, and files systems.</li> <li>To understand the concepts and implementation Memory management policies and virtual memory</li> </ol>
MCA204	2	Principles and Practice of Management	<ol style="list-style-type: none"> <li>To identify and evaluate the influence of historical forces on the current practice of management.</li> <li>To study the basics nature and functions of management for efficient planning and management</li> <li>To understand the impact of efficient staffing and leadership.</li> <li>To explore the use of computer for controlling and decision making</li> </ol>
MCA205	2	Green IT	<ol style="list-style-type: none"> <li>To understand the essence of Green IT and its importance for environmental Sustainability.</li> <li>To identify IT Infrastructure Management and Green Data Centre Metrics for software development.</li> <li>Use Green IT Strategies and metrics for ICT</li> </ol>

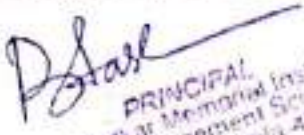
  
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			<p>development.</p> <p>4. Illustrate various green IT services and its roles.</p>
MCA206	2	Mathematical Computing	<p>1. To understand the foundation of symbolic and numerical computation and set theory.</p> <p>2. To develop basic understanding of basic mathematical and computational permutation and combination, matrix algebra and mathematical logic.</p> <p>3. To understand graph and tree properties and its applications.</p> <p>4. To evaluate various algorithms such as shortest path algorithms using graph traversal techniques.</p>
<b>MCA 3<sup>RD</sup> SEM</b>			
MCA301	3	Design Analysis and Algorithms	<p>1. To design and implement various data structure algorithms</p> <p>2. To Compute the complexity of various algorithms</p> <p>3. Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures</p> <p>4. Determine and analyze the complexity of given Algorithms.</p>
MCA302	3	Theory of Computation	<p>1. To introduce students to the mathematical foundations of computation.</p> <p>2. To understand the notions of algorithm, decidability, complexity, and computability.</p> <p>3. To develop the ability to understand and conduct mathematical proofs for various algorithms</p> <p>4. To understand time complexities of computation.</p>
MCA303	3	Computer Networks	<p>1. To study the basic taxonomy and terminology of the computer networking</p> <p>2. To understand the layers of OSI model and TCP/IP model and how these layers function.</p> <p>3. To acquire knowledge of the paradigms and protocols of the various layers.</p> <p>4. To gain core knowledge of Network layer routing protocols, IP addressing and transmission techniques.</p>
MCA304	3	Database Management Systems	<p>1. To describe a sound introduction to the discipline of database management systems</p> <p>2. To provide an overview of physical design of a database system, by discussing Database indexing techniques and storage techniques.</p> <p>3. Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.</p> <p>4. Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database</p>

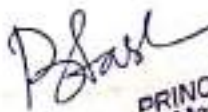
  
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MCA305	3	Quantitative Techniques (OR&SM)	<ol style="list-style-type: none"> <li>1. To understand data and draw inference from data</li> <li>2. To understand relevance &amp; need of quantitative methods for making business decisions.</li> <li>3. To be able to demonstrate a sound knowledge of fundamentals of statistics and statistical techniques.</li> <li>4. To explore statistical, forecasting and estimation techniques for efficient decision making.</li> </ol>
MCA306	3	Advance OS	<ol style="list-style-type: none"> <li>1. To understand the principles and need of parallel processing systems.</li> <li>2. To study the architecture and working principles of distributed systems</li> <li>3. To explore the applications of real time systems and its working mechanism.</li> <li>4. To explore the concepts and applications of network operating systems and open source operating systems.</li> </ol>
MCA307	3	Minor Project	<ol style="list-style-type: none"> <li>1. To develop managerial skills of students.</li> <li>2. To expose students to practical problems and learn troubleshooting methods.</li> <li>3. To develop effective computing solutions by incorporating creativity and logical reasoning to real life problem of automation.</li> <li>4. To efficiently design and develop a software solution for a real time scenario.</li> </ol>
<b>MCA 4<sup>TH</sup> SEM</b>			
MCA401	4	Programming with Java	<ol style="list-style-type: none"> <li>1. To understand the importance of Classes &amp; objects along with constructors, Arrays and Vectors using JAVA.</li> <li>2. Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem.</li> <li>3. Discuss the principles of inheritance, interface and packages and demonstrate through problem analysis assignments how they relate to the design of methods, abstract classes and interfaces and packages.</li> <li>4. To understand importance of Multi-threading &amp; different exception handling mechanisms</li> </ol>
MCA402	4	Computer Graphics and Multimedia	<ol style="list-style-type: none"> <li>1. To understand the use of the components of a graphics system.</li> <li>2. To familiarize with building approach of graphics system components and algorithms related with them.</li> <li>3. To learn the basic principles of 3- dimensional computer graphics.</li> </ol>

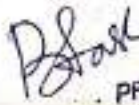
  
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			4. To list the basic concepts used in computer graphics.
MCA403	4	Software Engineering	<ol style="list-style-type: none"> <li>1. To understand the nature of software development and software life cycle process models.</li> <li>2. To explain methods of capturing, specifying, visualizing and analyzing software requirements.</li> <li>3. To understand concepts and principles of software design and user-centric approach and principles of effective user interfaces.</li> <li>4. To understand need of project management and project management life cycle.</li> </ol>
MCA404	4	Compiler Design and Language Processor	<ol style="list-style-type: none"> <li>1. To understand the major phases of compilation.</li> <li>2. To develop the parsers and experiment the knowledge of different parsers design.</li> <li>3. To construct the intermediate code representations and generation.</li> <li>4. To apply for various optimization techniques for dataflow analysis</li> </ol>
MCA405	4	Personality and Skill Development	<ol style="list-style-type: none"> <li>1. To develop necessary skills to communicate clearly.</li> <li>2. To understand the importance of team building and time management skills.</li> <li>3. To enhance active listening and responding skills.</li> <li>4. To develop an understanding of and practice personal and professional responsibility.</li> </ol>
MCA406D	4	ERP and E-commerce	<ol style="list-style-type: none"> <li>1. To understand concept of Ecommerce and its types.</li> <li>2. To familiarize with technologies for Ecommerce.</li> <li>3. To understand various E-business Strategies.</li> <li>4. To define and describe E-business and its Models</li> </ol>
<b>MCA 5<sup>th</sup> SEM</b>			
MCA501	5	Artificial Intelligence & Expert System	<ol style="list-style-type: none"> <li>1. To create appreciation and understanding of both the achievements of AI and Expert Systems.</li> <li>2. Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents.</li> <li>3. To review the different stages of development of the AI field from human like behavior to Rational Agents.</li> <li>4. To explore the techniques of AI in solving real life problems.</li> </ol>
MCA502	5	Object Oriented Analysis & Design with UML	<ol style="list-style-type: none"> <li>1. To learn basic concepts of UML designing for object oriented approach of solving problems.</li> <li>2. To understand the vocabulary, rules, and idioms of the UML and learn how to model it effectively.</li> <li>3. To model the systems, from concept to</li> </ol>

  
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			<p>executable artifact, using object oriented techniques.</p> <p>4. To understand the software development process.</p>
MCA503	5	Internet Technology & Enterprise Java	<ol style="list-style-type: none"> <li>1. To understand and differentiate the various techniques available for connecting to the internet.</li> <li>2. To describe the JAVA virtual machine, its need and scope.</li> <li>3. To introduce advance concepts of JAVA such as threads, applets and swings.</li> <li>4. To explore JDBC connectivity and other advanced features of JAVA for building software.</li> </ol>
MCA504	5	Accounting Information System	<ol style="list-style-type: none"> <li>1. To enable students to understand the role, purpose and importance of AIS.</li> <li>2. To understand the sub components of AIS and identify their functions.</li> <li>3. To understand the auditing and evaluation mechanisms in AIS.</li> <li>4. To explain, justify and evaluate internal control systems.</li> </ol>
MCA505A	5	Cryptography and Cyber Law	<ol style="list-style-type: none"> <li>1. To classify the symmetric and asymmetric encryption techniques.</li> <li>2. To develop basic skills of secure network architecture</li> <li>3. To understand different cryptographic algorithms.</li> <li>4. To demonstrate a critical understanding of the Cyber law.</li> </ol>
MCA506A	5	Distributed System/ Distributed Technology	<ol style="list-style-type: none"> <li>1. To learn the principles and architectures used in distributed systems.</li> <li>2. To understand various distributed systems algorithms and programming models.</li> <li>3. To be able to analyze how a set of connected computers can form a functional, usable and high performance distributed system.</li> <li>4. To acquire in depth understanding of process synchronization, deadlocks and memory management techniques.</li> </ol>
MCA507A	5	Internet of Things	<ol style="list-style-type: none"> <li>1. To learn the concepts, characteristics and applications of IOT.</li> <li>2. To be able to realize the revolution of Internet in Mobile Devices, Cloud &amp; Sensor Network and big data.</li> <li>3. To learn different protocols used in IOT.</li> <li>4. To understand the physical and logical design</li> </ol>

  
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			<p>executable artifact, using object oriented techniques.</p> <p>4. To understand the software development process.</p>
MCA503	5	Internet Technology & Enterprise Java	<ol style="list-style-type: none"> <li>1. To understand and differentiate the various techniques available for connecting to the internet.</li> <li>2. To describe the JAVA virtual machine, its need and scope.</li> <li>3. To introduce advance concepts of JAVA such as threads, applets and swings.</li> <li>4. To explore JDBC connectivity and other advanced features of JAVA for building software.</li> </ol>
MCA504	5	Accounting Information System	<ol style="list-style-type: none"> <li>1. To enable students to understand the role, purpose and importance of AIS.</li> <li>2. To understand the sub components of AIS and identify their functions.</li> <li>3. To understand the auditing and evaluation mechanisms in AIS.</li> <li>4. To explain, justify and evaluate internal control systems.</li> </ol>
MCA505A	5	Cryptography and Cyber Law	<ol style="list-style-type: none"> <li>1. To classify the symmetric and asymmetric encryption techniques.</li> <li>2. To develop basic skills of secure network architecture</li> <li>3. To understand different cryptographic algorithms.</li> <li>4. To demonstrate a critical understanding of the Cyber law.</li> </ol>
MCA506A	5	Distributed System/ Distributed Technology	<ol style="list-style-type: none"> <li>1. To learn the principles and architectures used in distributed systems.</li> <li>2. To understand various distributed systems algorithms and programming models.</li> <li>3. To be able to analyze how a set of connected computers can form a functional, usable and high performance distributed system.</li> <li>4. To acquire in depth understanding of process synchronization, deadlocks and memory management techniques.</li> </ol>
MCA507A	5	Internet of Things	<ol style="list-style-type: none"> <li>1. To learn the concepts, characteristics and applications of IOT.</li> <li>2. To be able to realize the revolution of internet in Mobile Devices, Cloud &amp; Sensor Network and big data.</li> <li>3. To learn different protocols used in IOT.</li> <li>4. To understand the physical and logical design</li> </ol>

  
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			approach of an IOT system.
MCA507B	5	Marketing Management	<ol style="list-style-type: none"> <li>1. To understand the concepts of marketing management.</li> <li>2. To learn about marketing process for different types of products and services.</li> <li>3. To understand the tools used by marketing managers in decision situations.</li> <li>4. To understand the marketing environment.</li> </ol>
MCA508	5	Minor in-house Project and Viva	<ol style="list-style-type: none"> <li>1. To be able to identify, formulate and implement computing solutions to a real time problem.</li> <li>2. To be able to design a system, component or process as per needs and specification of the problem taken.</li> <li>3. To develop skill to work on multidisciplinary tasks.</li> <li>4. To be aware of the new and emerging disciplines that will impact development of software solution.</li> </ol>
MCA509	5	Summer Internship Evaluation	<ol style="list-style-type: none"> <li>1. To provide students and opportunity to self assess their interests and abilities in the area of study.</li> <li>2. To develop and refine skills and professional capacity.</li> <li>3. To understand and experience workplace culture.</li> <li>4. To enhance interpersonal skills and communication abilities.</li> </ol>

**MCA 6<sup>TH</sup> SEM**

MCA601	6	Industrial Training cum Project/ Entrepreneurship Training cum Project	<ol style="list-style-type: none"> <li>1. Students will have an opportunity to demonstrate their skill to work on multidisciplinary tasks.</li> <li>2. To enable students to acquire industrial exposure and know of current and best practices.</li> <li>3. Students will be able to demonstrate an ability to engage in critical thinking by analyzing situations and constructing and selecting viable solutions to solve problems.</li> <li>4. To develop entrepreneurial abilities of students by mentoring their journey towards building innovative solutions.</li> </ol>
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**MBA Course Outcomes**

Code No	Year	Course Name	Course Outcomes
	1	Managerial	<ul style="list-style-type: none"> <li>• CO1: Students will be able to comprehend</li> </ul>

  
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		Economics	<p>terms and definitions related to Managerial Economics</p> <ul style="list-style-type: none"> <li>• CO2: Students will show a clear understanding of current economic scenario of our country.</li> <li>• CO3: Students will demonstrate views on theories of demand, supply and production function.</li> <li>• CO4: Students will be able to evaluate the changes in the pricing policy of the market.</li> <li>• CO5: Students will be equipped with more knowledge relating to fixation of price under different forms of Market.</li> </ul>
	1	Marketing Management	<ul style="list-style-type: none"> <li>• CO1: Students will demonstrate strong conceptual knowledge in the functional area of marketing management.</li> <li>• CO2: Students will demonstrate effective understanding of relevant functional areas of marketing management and its application.</li> <li>• CO3: Students will demonstrate analytical skills in identification and resolution of problems pertaining to marketing management.</li> </ul>
	1	Organizational Behavior	<ul style="list-style-type: none"> <li>• CO1: Students will be in a position to develop a clear understanding of various concepts relating to Organizational Behavior.</li> <li>• CO2: Students will be able to comprehend the importance of personality and values in ones behavior.</li> <li>• CO3: Students will develop understanding of various theories related to perception.</li> <li>• CO4: Students will perceive the importance of leadership qualities and role of motivation in one's behavior.</li> <li>• CO5: Students will clearly identify difference in individual and group behavior.</li> </ul>
	1	Management Principles	<ul style="list-style-type: none"> <li>• CO1: Students will be able to clearly identify the major contributions in the field of management.</li> <li>• CO2: Students will develop problem solving capacity using modern day tools and techniques. of management.</li> <li>• CO3: To demonstrate the roles and functions of management.</li> <li>• CO4: To effectively help in managerial decision making</li> </ul>

  
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1	Business Communication	<ul style="list-style-type: none"> <li>• CO1: Students will be able to comprehend all basics related to business communication</li> <li>• CO2: They will develop all reading and writing skills required in present day business situations</li> <li>• CO3: Students will be in a better position to handle presentations and Group Discussions.</li> <li>• CO4: Student will develop skills required for business report writing.</li> </ul>
1	Financial Accounting and Analysis	<ul style="list-style-type: none"> <li>• CO1: Students will be able to record basic journal entries.</li> <li>• CO2: Students will be able to memorize how to calculate depreciation by using various methods.</li> <li>• CO3: Students will be able to interpret financial results besides preparing final accounts.</li> <li>• CO4: Students can properly account for shares and debentures and preparation of cash flow statement.</li> </ul>
1	Business Law	<ul style="list-style-type: none"> <li>• CO1: Students will develop problem solving capability regarding case study problems.</li> <li>• CO2: Students will be have a fundamental understanding of all business problems</li> <li>• CO3: Students will appreciate the relevance of business laws in the current business scenario.</li> <li>• CO4: Students will be expert in demonstrating basic problems relating to law.</li> </ul>
1	Business Environment & Ethics	<ul style="list-style-type: none"> <li>• CO1: Students will be able to analyze different issues of environment and find out measures to control them</li> <li>• CO2: Students will develop conceptual framework of business environment.</li> <li>• CO3: Students will be have a clear understanding of social issues pertaining to business</li> <li>• CO4: Students will critically identify the importance of business ethics and its importance in the field of marketing finance and HR.</li> </ul>
1	Corporate Finance	<ul style="list-style-type: none"> <li>• CO1: Students will be able to comprehend all terms related to financial management</li> </ul>

  
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			<p>in corporate.</p> <ul style="list-style-type: none"> <li>• CO2: Students will develop analytical approach towards all financial problems related to its management.</li> <li>• CO3: Students will develop practical approach towards management of cash, inventory and working capital.</li> <li>• CO4: Students will have a general idea of all theories related to corporate finance and its management.</li> </ul>
	1	Indian Financial Systems and Services	<ul style="list-style-type: none"> <li>• CO1: Students can comprehend all terms related to financial management.</li> <li>• CO2: Students can explain the role and functions of banking and insurance sector.</li> <li>• CO3: Students will be able to differentiate between primary and secondary market.</li> <li>• CO4: Students will develop a theoretical base towards all concepts of mutual funds.</li> </ul>
	1	Human Resources Management	<ul style="list-style-type: none"> <li>• CO1: Student will understand strategic issues and how to handle manpower planning</li> <li>• CO2: Students will develop all necessary skills for application of various HR issues.</li> <li>• CO3: Students will learn to incorporate the knowledge of HR Practices in making the right decision making.</li> <li>• CO4: Students will be able to critically analyze the importance and needs of training and development in present business scenario.</li> </ul>
	1	Business Research	<ul style="list-style-type: none"> <li>• CO1: Students will be in a position to collect primary and secondary data</li> <li>• CO2: Students will be able to form a research design</li> <li>• CO3: Students will develop ability to understand the significance of business research</li> <li>• CO4: Students will be in a position to handle data analysis</li> </ul>
	1	Operations Management	<ul style="list-style-type: none"> <li>• CO1: Identify the elements of operations management and various transformation processes to enhance productivity and competitiveness.</li> <li>• CO2: Analyze and evaluate various facility alternatives and their capacity decisions, develop a balanced line of production &amp; scheduling and sequencing techniques in</li> </ul>

  
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			<p>operation environments.</p> <ul style="list-style-type: none"> <li>• CO3: Develop aggregate capacity plans and MPS in operation environments.</li> <li>• CO4: Plan and implement suitable materials handling principles and practices in the sphere of Operations &amp; Quality.</li> </ul>
	1	International Business	<ul style="list-style-type: none"> <li>• CO1: Students can explain the concepts in international business with respect to foreign trade/international business</li> <li>• CO2: Students can apply the current business phenomenon and to evaluate the global business environment in terms of economic, social and legal aspects</li> <li>• CO3: Students can analyze the principle of international business and strategies adopted by firms to expand globally</li> <li>• CO4: Students can integrate concept in international business concepts with functioning of global trade</li> <li>• CO5: Be able to indicate problem issues within international business and/or innovation and entrepreneurship, analyze these issues, draw conclusions, and disseminate findings in academia and business.</li> </ul>
	1	Fundamentals of it & ERP	<ul style="list-style-type: none"> <li>• CO1: Students will be able to classify different processes of the organization and relationship among all processes.</li> <li>• CO2: Students will examine systematically the planning mechanisms in an enterprise, and identify all components in an ERP system and the relationships among the components.</li> <li>• CO3: Student will be able to describe the Generic Model of ERP and General ERP Implementation Methodology.</li> <li>• CO4: Student will be able to apply the concepts of BPR, SCM and CRM and demonstrate knowledge of SAP and Oracle App.</li> </ul>
	1	Corporate Strategy	<ul style="list-style-type: none"> <li>• CO1: Students will be able to describe major theories, background work, concepts and research output in the field of strategic management.</li> <li>• CO2: Students will demonstrate a clear understanding of the concepts, tools &amp; techniques used by executives in developing and executing strategies and will appreciate its integrative and</li> </ul>

  
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			<p>interdisciplinary nature.</p> <ul style="list-style-type: none"> <li>• CO3: Students will be able to demonstrate effective application of concepts, tools &amp; techniques to practical situations for diagnosing and solving organizational problems.</li> <li>• CO4: Students will be able to demonstrate capability of making their own decisions in dynamic business landscape.</li> <li>• CO5: Students will be able to develop their capacity to think and execute strategically.</li> </ul>
	1	Entrepreneurship Development	<ul style="list-style-type: none"> <li>• CO1: Students will be able to describe the basic principles and concepts of management.</li> <li>• CO2: Students will be able to distinguish different plans and list steps in planning.</li> <li>• CO3: Students will be able to discuss the concepts of organizing and staffing.</li> <li>• CO4: Students will be able to interpret the concepts of directing and controlling. Demonstrate the</li> <li>• CO5: Students will be able to meaning, functions, types and roles of an entrepreneur and describe various institutional supports.</li> </ul>
	2	Business Law	<ul style="list-style-type: none"> <li>• CO1: TO enhance the student's ability to use the appropriate research methods and tools in the framework of an independent research project</li> <li>• CO2: To provide students with the knowledge of and practice with electronic information sources on law</li> <li>• CO3: To develop the ability to communicate in an effective way the acquired knowledge and the outcome of research projects, both in written and oral form;</li> <li>• CO4: To develop the ability for group work as incorporated into the structure of in-class presentations and case studies.</li> </ul>
	2	Cost Management & Accounting	<ul style="list-style-type: none"> <li>• CO1: To describe the three fundamental purposes of cost and management accounting.</li> <li>• CO2: Students can explain traditional and contemporary approaches to cost allocation.</li> <li>• CO3: Describe different product costing</li> </ul>

  
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			<p>scenarios in job-order and process environments.</p> <ul style="list-style-type: none"> <li>• CO4: Identify relevant information for decision making purposes in order to produce financial analyses for a range of decisions such as product-mix, pricing, outsourcing and special orders</li> </ul>
	2	Entrepreneurship And Business Law	<ul style="list-style-type: none"> <li>• CO1: To understand the laws related to business and entrepreneurs</li> <li>• CO2: Students will develop case study solving ability regarding all practical issues.</li> <li>• CO3: They will be able to apply critical thinking and problem solving skills</li> <li>• CO4: Demonstrate a high level of literacy to verbally communicate all information critically</li> </ul>
	2	Sales And Distribution	<ul style="list-style-type: none"> <li>• CO1: Recognize and demonstrate the significant responsibilities of sales person as a key individual.</li> <li>• CO2: Describe and formulate strategies to effectively manage company's sales operations.</li> <li>• CO3: Evaluate the role of Sales manager and his/ her responsibilities in recruiting, motivating, managing and leading sales team.</li> <li>• CO4: Illustrate the fundamentals of Distribution channels, Logistics and Supply Chain Management.</li> </ul>
	2	Consumer Behavior	<ul style="list-style-type: none"> <li>• CO1: Identify and explain factors which influence consumer behavior.</li> <li>• CO2: Demonstrate how knowledge of consumer behavior can be applied to marketing.</li> <li>• CO3: Display critical thinking and problem solving skills.</li> <li>• CO4: Gain, evaluate and synthesize information and existing knowledge from a number of sources and experiences.</li> <li>• CO5: In a team, work effectively to prepare a professional, logical and coherent report on consumer behavior issues within a specific context.</li> </ul>
	2	Retail Marketing	<ul style="list-style-type: none"> <li>• CO1: Students will have an in depth knowledge of the concepts of retail marketing</li> <li>• CO2: They will be aware of all terms related to retail marketing</li> </ul>

  
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			<ul style="list-style-type: none"> <li>• CO3: Students will have practical experience on the concept of dealing with retail marketing</li> <li>• CO4: They will be able to comprehend the problem and challenges related to marketing in present business scenario.</li> </ul>
	2	Service Marketing	<ul style="list-style-type: none"> <li>• CO1: Demonstrate an extended understanding of the similarities and differences in service-based and physical product based marketing activities.</li> <li>• CO2: Demonstrate knowledge of the extended marketing mix for services.</li> <li>• CO3: Develop and justify marketing planning and control systems appropriate to service-based activities.</li> <li>• CO4: Specify, analyze and select markets for specific service products.</li> <li>• CO5: Prepare, communicate and justify marketing mixes and information systems for service-based organizations.</li> </ul>
	2	Security Analysis And Portfolio Management	<ul style="list-style-type: none"> <li>• CO1: Students will have good knowledge on the operations of stock exchange.</li> <li>• CO2: To become a good investor in the area of portfolio management.</li> <li>• CO3: To critically analyze the different combinations of Portfolios.</li> <li>• CO4: They can comprehend performance evaluation of various portfolios.</li> </ul>
	2	Financial Derivatives	<ul style="list-style-type: none"> <li>• CO1: To comprehend the basic nature and feature of derivatives in the market</li> <li>• CO2: Students will possess good skills regarding how to deal in future market.</li> <li>• CO3: To understand and develop skills in dealing with the management of risk</li> <li>• CO4 : They will possess knowledge of Black holes model and gather basic information of derivative market</li> </ul>
	2	Financial Market And Derivatives	<ul style="list-style-type: none"> <li>• CO1: They will be acquaint with the dynamic nature of financial market and services</li> <li>• CO2: Students will be able to deal in financial securities</li> <li>• CO3: They will be experts in the concepts of money market and capital market</li> <li>• CO4: Students will gain knowledge and be able to compare the different financial services</li> </ul>

  
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	2	Strategic Financial Management	<ul style="list-style-type: none"> <li>• CO1: Students will be able to understand all theories and principles related to financial policy and theories</li> <li>• CO2: They will have full fledged knowledge on the concepts of valuation of stock and dividend.</li> <li>• CO3: They will develop deep understanding on the concepts of mergers and acquisitions.</li> <li>• CO4: They will enhance the application of theoretical knowledge and its practical application for corporate restructuring</li> </ul>
	2	Employment Legislations	<ul style="list-style-type: none"> <li>• CO1: To apply aspects of employment law to real workplace situations.</li> <li>• CO2: Students will consider the ethical, equity, and sustainability implications of current and emerging labor regulation</li> <li>• CO3: To provide the students with knowledge for further tools on employment exchange.</li> </ul>
	2	Industrial Relations	<ul style="list-style-type: none"> <li>• CO1: To understand the nature and scope of labor laws</li> <li>• CO2: They help the students in managing relations at work.</li> <li>• CO3: To know the terms and conditions related to fair market place.</li> <li>• CO4: They will be able to elaborate on industrial dispute settlement.</li> </ul>
	2	Performance Management	<ul style="list-style-type: none"> <li>• CO1: To have an understanding of the basic concepts, functions and processes of human resource management</li> <li>• CO2: To be aware of the role, functions and functioning of human resource department of the organizations.</li> <li>• CO3: To Design and formulate various HRM processes such as Recruitment, Selection, Training, Development, Performance appraisals and Reward Systems, Compensation Plans and Ethical Behavior.</li> <li>• CO4: Develop ways in which human resources management might diagnose a business strategy and then facilitate the internal change necessary to accomplish the strategy</li> <li>• CO5: Evaluate the developing role of human resources in the global arena.</li> </ul>

  
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2	Summer Internship	<ul style="list-style-type: none"> <li>• CO1: Students will develop practical exposure to field work.</li> <li>• CO2 : To demonstrate their communication skills both oral and written</li> </ul>
2	Strategic Management	<ul style="list-style-type: none"> <li>• CO1: Analysing a company's strategic situation, with particular emphasis on strategic analyses on the business level, the corporate level, and the network level</li> <li>• CO2: Developing suggestions for change and development of a company's strategy.</li> <li>• CO3: The students will, by means of lectures and a written exam, be encouraged to reflect on and combine key perspectives and frameworks within the field of strategic management.</li> </ul>
2	Project Work On Internship	<ul style="list-style-type: none"> <li>• CO1: The students will develop skills to deal with real life situations problems</li> <li>• CO2: Students will be able to develop communication skills and exposure to practical problems.</li> </ul>
2	Branding And Advertising	<ul style="list-style-type: none"> <li>• CO1: Students will develop basic understanding on all concepts related to branding and advertising</li> <li>• CO2: Students will gain practical knowledge on dealing on the concepts of advertising</li> <li>• CO3: To develop communication skills both verbal and written</li> <li>• CO4: Students will learn about the challenges in the current business scenario related to branding and advertising</li> </ul>
2	B2B Marketing	<ul style="list-style-type: none"> <li>• CO1: Students can understand B2B digital marketing strategies and develop how to think strategically.</li> <li>• CO2: Identify business customer insights through B2B digital technologies.</li> <li>• CO3: Learn about Touch point mapping across the B2B buyer journey.</li> <li>• CO4: Learn how to use digital channels for B2B lead generation and nurturing</li> </ul>
2	Direct Taxation	<ul style="list-style-type: none"> <li>• CO1: Students will be able to identify the technical terms and all terminology related to direct taxation.</li> <li>• CO2: Students should be able to determine the residential status of an assess and thus should be able to compute the taxable income of assesses with different residential status.</li> </ul>

  
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			<ul style="list-style-type: none"> <li>• CO3: Students will be able to compute income from salaries, house property, business/profession, capital gains and income from other sources.</li> <li>• CO4: Students will be able to compute the taxable income and tax for a partnership firm</li> </ul>
	2	Behavioral Finance	<ul style="list-style-type: none"> <li>• CO1: Understand and apply the main concepts, research tools and methodologies of behavioral finance that help to reveal biases, heuristics, etc.</li> <li>• CO2: To present the main results in the field of behavioral finance focusing on financial market processes including market anomalies.</li> <li>• CO3: Explore behavioral corporate finance, considering financial, investment and dividend policy decisions and contrasting traditional and behavioral approaches.</li> <li>• CO4: Students will develop, prepare and present behavioral finance problems.</li> </ul>
	2	Merger Acquisition And Corporate Restructuring	<ul style="list-style-type: none"> <li>• CO1: Be able to understand the process and economic rationale for M&amp;As.</li> <li>• CO2: Be able to understand typical valuation techniques in M&amp;As.</li> <li>• CO3: Be able to apply the valuation techniques to M&amp;A assessment and decision making</li> <li>• CO4: Students will have acquired analytical skills in analyzing real-world cases in M&amp;As.</li> </ul>
	2	Strategic HRM	<ul style="list-style-type: none"> <li>• CO1: Apply critical thinking skills in analyzing theoretical and applied perspectives of strategic HRM</li> <li>• CO2: Students can analyze problems and develop managerial solutions to employment relations problems at both national and workplace level.</li> <li>• CO3: Demonstrate the application of problem solving and evaluation skills in HRM with the help of case studies.</li> <li>• CO4: Communicate knowledge of SHRM and employment relations in both written and verbal formats reactive to both audience and purpose.</li> </ul>
	2	Team Dynamics At Work	<ul style="list-style-type: none"> <li>• CO1: Analyze the features and developmental stages of groups and team process.</li> </ul>

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			<ul style="list-style-type: none"> <li>• CO2: Conceptualize and debate the importance of communicating clearly and effectively in the rapport building stages of a relationship.</li> <li>• CO3: Critically evaluates and discusses the tools needed for effective communication in a variety of group scenarios</li> <li>• CO4: Formulate an effective problem solving approach that assists practitioners toward enhancing communication skills as applied to group, team, and family relationship</li> </ul>
	2	Performance Management System	<ul style="list-style-type: none"> <li>• CO1: Students can describe the appraisal process.</li> <li>• CO2: To develop, evaluate, and administer at least four performance appraisal tools.</li> <li>• CO3: Explain and illustrate the problems to avoid in appraising performance.</li> <li>• CO4: List and discuss the pros and cons of six appraisal methods.</li> </ul>



**Principal**

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