



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

## PROGRAMME OUTCOMES AND COURSE OUTCOMES

**2023 – 2024**

**Name of the Programme: MCA**

**Programme Code: MCA**

### Programme Outcomes:

<b>PO 1</b>	Apply the knowledge of computing maths and science for the solution of problems and requirements
<b>PO 2</b>	Identify, critically analyze, formulate and develop computer applications using fundamental principles of relevant domain disciplines
<b>PO 3</b>	Design and evaluate solutions for computer based problems to meet the desired needs within realistic constraints such as safety, security and applicability
<b>PO 4</b>	Use research based knowledge to conduct experiments and interpret data to attain well-defined conclusions.
<b>PO 5</b>	Create, select and apply modern computing tools by understanding the limitations, with dexterity.
<b>PO6</b>	Demonstrate the competency in programming skills as per industry expectations.
<b>PO7</b>	Understand the impact of system solutions in societal, environmental and cultural issues within local and global contexts for sustainable development



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

**Mary Land, Madurai - 625018, Tamil Nadu**

<b>PO8</b>	Commit to professional ethics and cyber regulations, responsibilities & norms.
<b>PO9</b>	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary environment to manage projects.
<b>PO10</b>	Communicate effectively with the society about computing technologies.
<b>PO11</b>	Demonstrate knowledge and understanding of the management principles and apply these to manage projects.
<b>PO12</b>	Appreciate the importance of goal setting and to recognize the need for life-long learning in the broadest context of technological change.



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

## Course Outcomes:

Course Code	Course Title	Course Outcomes
20MCA101	Mathematical Foundation Of Computer Science	CO 1: Perform Logical operations and predicate calculus needed for computing skill.  CO2: Analyze and Compare the various techniques for solving numerical equations.  CO3: Apply the techniques of statistics and numerical methods to unravel problems by computers.  CO4: Explain the set theory logic.  CO 5: Utilize the Knowledge of matrices for designing and solving problems
22MCA102	Relational Database Management Systems	CO1: Understand the basic concepts of Relational Data Model, Entity Relationship Model and process of Normalization..  CO 2: Attain a good practical skill of managing and retrieving of data using Data Manipulation Language (DML)



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 3: Understand and construct database using Structured Query Language (SQL) in Oracle9i environment.</p> <p>CO 4 Learn basics of PL/SQL and develop Programs using Cursors, Exceptions, Procedures and Functions</p> <p>CO 5: Understand and use built-in functions and enhance the knowledge of handling multiple tables.</p>
20MCA103	Operating Systems	<p>CO 1: Identify the components and processes.</p> <p>CO 2: Analyze on scheduling algorithms and deadlocks.</p> <p>CO 3: Demonstrate the mapping between the physical memory and virtual memory.</p> <p>CO 4: Identify the secondary memory management techniques.</p> <p>CO 5: Analyze on the distributed systems and security issues.</p>
20MCA104	Programming In Python	<p>CO 1: Predict the basics of Python programming.</p> <p>CO 2: Solve problems requiring the writing of well-documented programs in the Python language, including use of the logical</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

**Mary Land, Madurai - 625018, Tamil Nadu**

		<p>constructs of that language.</p> <p>CO 3: Use and manipulate Lists and python exception handling model to develop robust programs.</p> <p>CO 4: Formulate solutions for String, tuples and File operations.</p> <p>CO 5: Apply object-oriented programming concepts to develop dynamic interactive Python applications</p>
20MCA105	Lab Ii – Rdbms	<p>CO 1: Enhance Programming skills and techniques.</p> <p>CO 2: Formulate complex queries using SQL</p> <p>CO 3: Use the PL/SQL code constructs of IF-THEN-ELSE and LOOP types as well as syntax and command functions.</p>
20MCA106	Lab I – Python Programming	<p>CO 1: Implement Math functions, Strings, List and Tuple in Python programs.</p> <p>CO 2: Express different Decision Making statements and Functions.</p> <p>CO 3: Interpret Object oriented programming in Python &amp; File</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		handling operations.
29MCA107	Skill Based Lab I – Linux	CO 1: Use Linux utilities and develop shell scripts to perform tasks. CO 2: Effectively use Linux environment to accomplish software development tasks. CO 3: Monitor system performance and network activities.
20MCA108	Soft Skills I – Professional Communication	CO 1: Display competence in oral and written communication. CO 2: Use current technology related to the communication.
20MCA201	Data Structures And Algorithms	CO 1: Select appropriate data structures as applied to specified problem definition. CO 2: Implement operations like searching, insertion, deletion and traversing in trees. CO 3: Compare the data structures of advanced search trees. CO 4: Implement appropriate heap operations, sorting, searching



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>techniques for a given problem.</p> <p>CO 5: Determine and analyze the complexity of graph Algorithms.</p>
23MCA202	Computer Networks & Communication	<p>CO 1: Identify the functionalities of Networking layers of both OSI and TCP/IP reference models.</p> <p>CO 2: Analyze the design issues of Datalink layer and techniques to resolve it.</p> <p>CO 3: Compare the principles of Internet protocols and Routing algorithm. Predict the TCP and UDP related procedures</p> <p>CO 4: Outline the Application layer protocols.</p> <p>CO 5: Examine and Explore Network Security Protocols.</p>
20MCA203	Programming In Java	<p>CO 1: Analyse the hierarchy of java classes to develop object oriented programs.</p> <p>CO 2: Design software in Java using Packages and Interfaces.</p> <p>CO 3: Develop programs for handling Exceptions &amp; implementing Multithreading concepts.</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 4: Implement Concepts of AWT for Creating GUI and JDBC connectivity.</p> <p>CO 5: Explore the frameworks in Java and develop applications for the basic CRUD operation using frameworks.</p>
20MCA204	Lab Iii – Web Technologies	<p>CO 1: Design WebPages using server side scripting.</p> <p>CO 2: Use PHP built-in functions and custom functions for processing.</p> <p>CO 3: Create various interactive and dynamic websites</p>
20MCA205	Lab Iv – Java Programming	<p>CO 1: Apply the basic Java constructs to develop solutions to real time problems.</p> <p>CO 2: Analyze the hierarchy of java classes to develop object oriented programs.</p> <p>CO 3: Design software in Java using Packages and Threads.</p> <p>CO 4: Implement Concepts of AWT for creating GUI.</p> <p>CO 5: Design a Software using JDBC.</p>





# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

**Mary Land, Madurai - 625018, Tamil Nadu**

20MCA206	Skill Based Lab Ii – R Programming	CO 1: Demonstrate the practical application of R programming tool. CO 2: Emphasize the implementation of statistical operations in R
20MCA207	Soft Skills Ii- Aptitude Training	CO1: Apply quantitative techniques to solve variety of problems. CO 2: Enhance the reasoning skills for employability.
22MCA302	Software Engineering Principles	CO 1: Understand basic software engineering methods and practices CO 2: Analyse on software requirements and the SRS documents. CO 3: Identify the data, class and flow oriented modelling concepts. CO 4: Analyse on the design oriented concepts. CO 5: Identify the managerial aspects of Software development.
20MCA303	Full Stack Development	CO 1: Understand how to use Tailwind's responsive design utilities. CO 2: Master the creation and composition of React components



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 3: Gain proficiency in using React hooks</p> <p>CO 4: Learn to create RESTful APIs, handle middleware and manage routes.</p> <p>CO 5: Master the fundamental CRUD (Create, Read, Update, Delete) operations in MongoDB.</p>
20MCA304	Application Development Frameworks	<p>CO 1: Develop responsive and interactive applications using ASP.NET frameworks.</p> <p>CO 2: Identify and utilize various ASP.NET controls including validation and navigation controls.</p> <p>CO 3: Create and manage a consistent layout across multiple pages using master pages</p> <p>CO 4: Deploying and configuring ASP.Net MVC Applications</p> <p>CO 5: Apply the concept of view and models</p>
20MCA305	Lab V - Full Stack Development	<p>CO 1: Develop front end and back end website applications.</p> <p>CO 2: Effectively manage website projects using available</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		resources.  CO 3: Apply basic design principles to present ideas, information, products, and services on websites.
20MCA306	Lab Vi – Application Development Frameworks	CO 1: Create user interactive web pages using ASP.Net.  CO 2: Create data binding applications using ADO.Net connectivity.  CO 3: Performing Database operations for web applications using MVC.
20MCA307	Skill Based Lab Iii – Mobile Application Development	CO 1: Install and configure Android application development tools..  CO 2: Design and develop user Interfaces for the Android platform CO 3: Apply Java programming concepts to Android application development  CO 4: Familiarise the technology and business trends impacting mobile applications.  CO 5: Include database and maps in apps to facilitate societal centric applications



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

20MCA308	Soft Skill Iii- Interpersonal Skills For Corporate Readiness	CO1: Develop skills for producing high quality etiquettes at the time of interviews.  CO2: Exhibit competencies expected by employers.  CO 3: Demonstrate emotional intelligence and inter cultural competencies and to be ready to work in teams
20MCAAD01	Data Mining Techniques	CO 1: Identify the functionalities of Data Mining and various techniques to extract knowledge.  CO 2: Analyze the methods to discover Association Rules  CO 3: Design & deploy the appropriate Clustering techniques.  CO 4: Outline web mining, temporal and spatial data mining  CO 5: Examine and Explore weka techniques
20MCADA02	Data Analytics And Visualization Using Spreadsheets	CO 1: Ability to analyze data is a powerful skill that helps you make better decisions  CO 2: Identify the basic principles of a Pivot Table  CO 3: Recognize how to use Pivot Table and Pivot chart



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

**Mary Land, Madurai - 625018, Tamil Nadu**

		CO 4: Use Excel's powerful functions to efficiently transform mountains of raw data into clear insights CO 5: Use your new-found Excel skills like Descriptive Statistics and Inferential Statistics to analyze what makes a successful project.
20MCADA03	Big Data Analytics	CO 1: Understand the fundamentals of various big data analysis techniques  CO 2: Analyze the big data analytic techniques for useful business applications  CO3: Examine the HADOOP and Map Reduce technologies associated with big data analytics  CO 4: Scrutinize the various storage architecture using HDFS and Map reducing techniques  CO5: Understand, Explore and deploy Hbase
20MCADA04	Data Analytics Tools & Techniques	CO 1: Examine the programming constructs of Pig and database management using HiveQL  CO 2: Write scripts using Pig latin and perform various HiveQL queries



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

		<p>by applying RDBMS concepts</p> <p>CO 3: Apply the concepts of Pig and Hive in simple tasks</p> <p>CO 4: Formulate and analyse different databases for different situations</p> <p>CO 5: Create real time applications</p>
20MCADA05	Business Analytics Using R	<p>CO 1: Examine the concepts around Business analytics</p> <p>CO 2: Evaluate the process of analysing a business descriptively using the tool</p> <p>CO 3: Explore data and business analytic process</p> <p>CO 4: Apply various supervised and un supervised Machine learning techniques</p> <p>CO 5: Learn to apply different algorithms of regression for business problems</p>
20MCADA06	Big Data Security	<p>CO 1: Identify the need for security and best practices in a big data environment</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 2: Analyze the steps to secure big data</p> <p>CO 3: Build security in hadoop eco system</p> <p>CO 4: Assess the sensitivity of data in Hadoop</p> <p>CO 5: Outline data security and event logging</p>
20MCADS01	Distributed Systems	<p>CO 1: Understand the design principles in distributed systems and the architectures for distributed systems.</p> <p>CO 2: Apply various distributed algorithms related to clock synchronization, concurrency control, deadlock detection, load balancing, voting etc.</p> <p>CO 3: Analyze fault tolerance and recovery in distributed systems and algorithms for the same.</p> <p>CO 4: Analyze the design and functioning of existing distributed systems and file systems.</p> <p>CO 5: Implement different distributed algorithms over current</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		distributed platforms
20MCADS02	Secured Wireless Communication	<p>CO 1: Identify, Predict and Evaluate the security features in wireless environment</p> <p>CO 2: Demonstrate the architectures, challenges and solutions of Wireless LAN</p> <p>CO 3: Assess the role of Bluetooth architecture &amp; security in wireless communication.</p> <p>CO 4: Analyse the architecture, infrastructure and security conceptions of GSM &amp; CDPD</p> <p>CO 5: Study the Design aspects of wireless application protocol</p>
20MCADS03	Cryptography & Network Security	<p>CO 1 Evaluate the fundamentals of networks security, security architecture, threats and vulnerabilities</p> <p>CO 2 Compare Stream ciphers and block ciphers.</p> <p>CO 3 Apply the different cryptographic operations of public key cryptography.</p>





# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

**Mary Land, Madurai - 625018, Tamil Nadu**

		<p>CO 4Pertain the various Authentication schemes to simulate different applications.</p> <p>CO 5Applying CrypTool 2 to encrypt and decrypt texts using different ciphers.</p>
20MCADS04	Cyber Forensics	<p>CO 1Predict the forensics fundamentals and the various technologies used to avoid computer crimes</p> <p>CO 2Illustrate different methods to collect and preserve digital evidence and Digital Crime Scene.</p> <p>CO 3Identify and Analyze Forensic Technical Surveillance Devices.</p> <p>CO 4Evaluate the Various tools and tactics followed in military.</p> <p>CO 5Demonstrate the Usage of surveillance tools for tracking cyber criminals</p>
20MCADS05	Cloud Security	<p>CO 1Examine the security threats in cloud platforms</p> <p>CO 2Evaluate Data Asset and Identity Access Management</p> <p>CO 3Manage the vulnerable cloud environment</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		CO 4 Understand the security issues that arises over a Network  CO 5 Explore the security incidents by detecting, responding and recovering
20MCADS06	Web Security	CO 1 Understand the Web architecture and applications  CO 2 Ascertain the concept of digital identification.  CO 3 Assess the threats on privacy in the web.  CO 4 Demonstrate security solutions for web servers.  CO 5 Analyse the common vulnerabilities towards content providers.
20MCAAM01	Artificial Intelligence & Expert Systems	CO 1: Identify problems that are amenable to solution by AI methods.  CO 2: Formulate search problems and implement search algorithms using admissible heuristics.  CO 3: Design and carry out an empirical evaluation of different algorithms on a predicate logic and state the conclusions that the evaluation supports.



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 4: Analyze games playing as adversarial search problems and implement optimal and efficient solutions.</p> <p>CO 5: Apply the concepts of Expert Systems in machine learning, Examine and Explore scikit learn techniques</p>
20MCAAM02	Soft Computing	<p>CO 1: Explore the functional components of artificial neural networks..</p> <p>CO 2: Examine the principles of back propagation networks.</p> <p>CO 3: Expose the students to the concepts of predicting the functionalities of ART.</p> <p>CO 4: Analyze the logic principle of classical sets and fuzzy set operations in fuzzy set theory.</p> <p>CO 5: Identify the concept of fuzzification and defuzzification involved in various systems.</p>
20MCAAM03	Machine Learning	<p>CO 1 Identify the concepts of machine learning</p> <p>CO 2 Demonstrate Decision Tree learning and Bayesian Learning for</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>classification.</p> <p>CO 3 Analyze the logic behind Genetic Algorithms.</p> <p>CO 4 Compare various set of rules available for Learning.</p> <p>CO 5 Propose solution for real world problems based on Inductive and Analytical Learning.</p>
20MCAAM04	Neural Networks	<p>CO 1 Identify problems that are amenable to solution by Neural networks methods.</p> <p>CO 2 Formulate searching rules and implement Single Layer Perceptron and Multilayer Perceptron Networks.</p> <p>CO 3 Design and carry out an empirical evaluation of different algorithms on Pattern Association</p> <p>CO 4 Analyze Feedback and Feed forward Network and implement optimal and efficient solutions.</p> <p>CO 5 Apply the application of Neural Networks in Arts, Bioinformatics and use of Neural Networks in Knowledge Extraction.</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

20MCAAM05	Human Computer Interaction	<p>CO 1 Design effective dialog for HCI</p> <p>CO 2 Design effective HCI for individuals and persons with disabilities</p> <p>CO 3 Assess the importance of user feedback</p> <p>CO 4 Explain the HCI implications for designing websites</p> <p>CO 5 Develop meaningful user interface</p>
20MCAAM06	Deep Learning	<p>CO 1 Identify problems that are amenable to solution by deep networks</p> <p>CO 2 Formulate convolutional networks and sequence modelling for problem solving</p> <p>CO 3 Design and carry out an empirical evaluation of autoencoders and representation learning</p> <p>CO 4 Analyze structured probabilistic and Monte Carlo Methods</p> <p>CO 5 Apply the applications of deep learning.</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

20MCAGE01	E Content Development	<p>CO 1: Understand E-Learning with respect to its needs, challenges and benefits</p> <p>CO 2: Explain the components of Authoring tools and E-learning standards.</p> <p>CO 3: Apply Audio editing techniques for creating podcasts.</p> <p>CO 4: Understand the techniques of creating customized lessons</p> <p>CO 5: Create videos using online tools.</p>
20MCAGE02	Financial Management And Accounting	<p>CO 1: Preparation and analysis of balance sheet.</p> <p>CO 2: Predict the Classification of Costing.</p> <p>CO 3: Decide the budget preparation and control of a company.</p> <p>CO 4: Analyze the flow of funds.</p> <p>CO 5: Use Tally to implement the needs of financial accounting</p>
20MCAGE03	Organizational Behaviour	<p>CO 1: Develop an Organisational Behaviour model for any type of Organization</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 2: Understand the Ethics in Decision Making</p> <p>CO 3: Develop and improve the quality of Leadership.</p> <p>CO 4: Evaluate the Common biases and eradication in Decision Making Process.</p> <p>CO 5: Understand how to manage the Stress during a job</p>
20MCAGE04	E-Commerce	<p>CO 1: Gain a comprehensive understanding of the E-Commerce landscape, current and emerging technology and infrastructure underpinnings of the business.</p> <p>CO 2: Analyze the impact of E-commerce on business models and strategy.</p> <p>CO 3: Develop an understanding on how internet can help business grow/ Describe the infrastructure for E-commerce</p> <p>CO 4: Assess electronic payment systems</p> <p>CO 5: Gain an understanding on the importance of security, privacy, and ethical issues as they relate to E-Commerce.</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

20MCAGE05	Ethics In Computing	<p>CO 1: Predict the relationship between the law, ethics and computer technology.</p> <p>CO 2: Outline the philosophical and ethical debates with the ideas and the nature of intellectual creativity.</p> <p>CO 3: Design the impact of computer technology on free speech.</p> <p>CO 4: Formulate the ethical and legal issues of the impact that computing technologies had on workplace.</p> <p>CO 5: Develop a personal standpoint in relation to DataBase society and the usage of biometric data.</p>
20MCAGE06	Resource Management Techniques	<p>CO 1: Identify the applications of Operations Research and methods to solve business problems.</p> <p>CO 2: Apply linear programming to solve operational problem with</p>





# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>constraints.</p> <p>CO 3: Apply transportation and assignment models to find optimal solution in warehousing and Travelling,</p> <p>CO 4: Prepare project scheduling using PERT and CPM.</p> <p>CO 5: Use optimization concepts in real world problems</p>
20MCAGE07	Entrepreneurship Development	<p>CO1: Highlight the salient characteristics of successful entrepreneur</p> <p>CO2: Enumerate the competencies relevant for Entrepreneurial development.</p> <p>CO3: Delineate the growth of women Entrepreneurship in India.</p> <p>CO4: Identify the major problems faced in conducting EDPs.</p> <p>CO5: Discuss the methods of project appraisal used for small scale enterprises</p>
20MCAGE08	Principles Of Artificial Intelligence	<p>CO 1: Familiar with Artificial Intelligence, its foundation and principles.</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 2: Explore the characteristics of intelligent agents.</p> <p>CO 3: Formulate Informed search strategies and implement search algorithms.</p> <p>CO 4: Analyze the logic behind planning and uncertainty.</p> <p>CO 5: Identify the concepts of learning and decision trees.</p>
20MCAGE09	Research Methodology	<p>CO 1: Predict the different stages of research process.</p> <p>CO 2: Apply methods to collect best data.</p> <p>CO 3: Assess the suitable research design &amp; work.</p> <p>CO 4: Compare categorical and continuous measures.</p> <p>CO 5: Analyze the process of various reports writing.</p>
20MCAGE10	Digital Image Processing	<p>CO 1: To review the fundamental concepts of a digital image processing system.</p> <p>CO 2: To examine various types of images, their intensity transformations and spatial filtering.</p> <p>CO 3: To analyze the different types of noises and the filters used</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>to restore and reconstruct the images.</p> <p>CO 4: To create color images and pseudo images with smoothening and sharpening techniques.</p> <p>CO 5: To compare the various lossy and lossless compression mechanisms.</p>
20MCAGE11	Cloud Services	<p>CO 1: Examine the characteristics of Cloud Computing and the architecture.</p> <p>CO 2: Define Infrastructure and Identify service models.</p> <p>CO 3: Relate abstraction and virtualization and cloud computing frameworks .</p> <p>CO 4: Manage and administrate cloud.</p> <p>CO 5: Explore cloud based storage and collaboration technologies.</p>
20MCAGE12	Agile Software Engineering	<p>CO 1: Explain the fundamental principles and practices of the agile development methods.</p> <p>CO 2: Analyze the planning and execution of the agile manifesto</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>CO 3: Monitor the management to achieve complete product development.</p> <p>CO 4: Practice the integration of development and operations in software projects.</p> <p>CO 5: Present the software project by following the principles that best fit the technical and market demands.</p>
23MCAGE13	Internet & Web Designing	<p>CO 1: Use knowledge of JavaScript to create personal and/or business websites</p> <p>CO 2: Create effective scripts using jQuery to enhance the end user experience</p> <p>CO 3: Write PHP scripts to handle HTML forms</p> <p>CO 4: Use PHP built-in functions and custom functions for processing</p> <p>CO 5: Test, debug, and deploy web pages containing PHP and MySQL</p>
23MCAGE14	Foundation Of Data Science	<p>CO 1: Define the data science process</p> <p>CO 2: Understand different models for data description for data</p>



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*

*Re-Accredited with 'A++' by NAAC (Cycle - IV)*

Mary Land, Madurai - 625018, Tamil Nadu

		<p>science process</p> <p>CO 3: Gain knowledge on R Language</p> <p>CO 4: Use different techniques in Probability Distribution</p> <p>CO 5: Discuss the methods available for Delivering results</p>
23MCAGE15	High Speed Networking Principles	<p>CO 1: Identify the building blocks and operation of high speed networking and ATM.</p> <p>CO 2: Analyze the cause of congestion, traffic slow down and related factors for Quality of Service.</p> <p>CO 3: Apply the concepts learnt in this course to optimize performance of high-speed networks using Flow Control</p> <p>CO 4: Compare the different architectures used for HSN.</p> <p>CO 5: Describe the protocols that are used to design high speed networks</p>