



R.M.K. ENGINEERING COLLEGE

(An Autonomous Institution)

R.S.M NAGAR, KAVARAIPETTAI – 601 206

Affiliated to Anna University, Chennai /Approved by AICTE, New Delhi/

Accredited by NAAC with A+ Grade / ISO 21001:2018 Certified Institution/

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DEPARTMENT OF INFORMATION TECHNOLOGY

Course Outcomes – Even Semester 2024-2025

Sl. No.	Semester	Theory / Lab / Practical / Lab Integrated	Course Code / Course Name
1)	4	Lab Integrated	22MA401 - Probability and Statistics
2)	4	Lab Integrated	22IT405 – Artificial Intelligence and Machine Learning
3)	4	Lab Integrated	22IT402 - Computer Architecture and Microprocessors
4)	4	Lab Integrated	22IT407 – Web Development Frameworks
5)	4	Lab Integrated	22IT406 – Application System Design with UML
6)	4	Lab Integrated	22IT903 – Software Testing and Automation
7)	4	Laboratory Course	22ME411 – Product Development Lab - 4
8)	4	Practical	22CS411 – Aptitude and Coding Skills - II
9)	6	Lab Integrated	22IT601 – Mobile Application Framework and Development
10)	6	Lab Integrated	22IT602 - Embedded system and Internet of things
11)	6	Theory	22IT912 - Blockchain Technologies
12)	6	Lab Integrated	22CB003 - Business Strategy
13)	6	Lab Integrated	22CD004 - Digital Marketing
14)	6	Lab Integrated	22IT904 - DevOps
15)	6	Practical	22CS611 – Aptitude and Coding Skills - II

Fourth Semester B.Tech.

22MA401 - Probability and Statistics	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Compute the statistical measures of standard distributions
CO2	Determine the correlation and regression for two dimensional random variables.
CO3	Implement the concept of testing of hypothesis to solve real life problems.
CO4	Apply the concept of analysis of variance for various experimental designs.
CO5	Prepare the control charts for variables and attributes for analyzing the data.
CO6	Analyze Statistical data using R programming.

22IT405 – Artificial Intelligence and Machine Learning	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Explain the problem solving and search strategies.
CO2	Demonstrate the techniques for knowledge representation and reasoning.
CO3	Interpret various forms of learning, artificial neural networks and its applications.
CO4	Experiment various machine learning algorithms.
CO5	Employ AI and machine learning algorithms to solve real world problems.

22IT402 - Computer Architecture and Microprocessors	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Describe the basics structure of computers, operations and instructions.
CO2	Design arithmetic and logic unit.
CO3	Demonstrate simple and pipelined Datapath construction.
CO4	Examine the various memory systems and I/O communication.
CO5	Demonstrate the architecture of 8086 microprocessor and assembly programming.

22IT407 – Web Development Frameworks	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Personalize web pages using text formatting, graphics, audio, and video.
CO2	Hands on knowledge on Rest API , propTypes.
CO3	Able to develop a web application using latest React Framework.
CO4	Apply various React features including functions, components, and services
CO5	Able to develop application using ReactJs hooks

22IT406 – Application System Design with UML	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	To understand business problem statement in object-oriented notation
CO2	Covert the analysis phase to design modeling.
CO3	Identify various scenarios based on software requirements
CO4	Implement Static diagrams and Dynamic modeling using UML Modeling
CO5	To build an extendable and scalable solution using Design patterns
CO6	Develop and implement simple applications that make use of classes, packages and interfaces

Professional Elective - I

22IT903 – Software Testing and Automation	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Obtain an insight to software testing.
CO2	Apply both black box testing and white box testing.
CO3	Understand and apply multiple levels of testing.
CO4	Understand the role of a tester as an individual and as a team member.
CO5	Apply software testing for large projects using automated testing tools.
CO6	Maintain documentation on testing.

22ME411 – Product Development Lab - 4	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Identify the real-time problems through literature
CO2	Develop feasible solutions for the problems.
CO3	Evaluate the methods to develop solutions to the problem.
CO4	Analyze the business opportunities for a new product
CO5	Prepare a detailed report for the experimental dissemination

22CS411 – Aptitude and Coding Skills - II	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Develop advanced vocabulary for effective communication and reading skills
CO2	Build an enhanced level of logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming
CO4	Apply data structures and algorithms in problem solving.

Sixth Semester B.Tech.

22IT601 – Mobile Application Framework and Development	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Analyze mobile internals and their ecosystem to understand their functionalities and interactions
CO2	Design mobile applications with offline support, local databases, and VPN connectivity, ensuring robustness and efficiency
CO3	Apply industry-facing frameworks such as Xamarin and NativeScript to create advanced mobile solutions.
CO4	Integrate mobile application components to address complex user requirements and enhance user experience.
CO5	Assess mobile application performance for various platforms to meet industry standards.
CO6	Develop innovative mobile applications

22IT602 - Embedded system and Internet of things	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Understand the fundamental concepts of embedded systems and the architecture of microcontrollers used in IoT.
CO2	Design and develop embedded systems using various sensors, actuators, and communication protocols for IoT applications .
CO3	Implement IoT systems by integrating cloud computing, networking, and real-time data process for smart application
CO4	Analyze the power management and optimization techniques in embedded systems for IoT devices.
CO5	Evaluate the security and privacy issues in IoT systems and implement strategies to safeguard data and communication.
CO6	Design and prototype IoT-base

Open Elective - I

22CB003 - Business Strategy	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Become familiar with both internal and external environment. They would also become familiar with corporate and growth strategies, appreciate implementation of such strategies
CO2	Learn the fundamental concepts of strategic management to analyse business situations and apply these concepts to solve business problems.
CO3	Understand the fundamental principles of and interrelationships among business functions such as: R&D, production, marketing, finance, and HR and information technology
CO4	Apply the inter-relationships of business to individuals, other organizations, government and society.
CO5	Analyze complex, unstructured qualitative and quantitative problems, using appropriate tools
CO6	Demonstrate the ability to evaluate and implement strategic decisions in dynamic business environments by applying relevant tools, models, and frameworks

Professional Elective - II

22IT912 - Blockchain Technologies	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Apply the basic concepts and technology used for blockchain
CO2	Illustrate the concepts of Bitcoin and their usage
CO3	Demonstrate the concepts of Consensus Algorithm
CO4	Implement Ethereum blockchain contract.
CO5	Implement web3 apps using Solidity on Ethereum Platform
CO6	Apply smart contract in real world applications

Professional Elective - III

22CD004 - Digital Marketing	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Understand the fundamental concepts of digital marketing, including online consumer behavior, digital channels, and trends.
CO2	Explain the role of websites, SEO, SEM, and content marketing in building digital presence.
CO3	Apply social media marketing techniques to develop brand awareness and engagement across platforms like Facebook, Instagram, LinkedIn, and Twitter.
CO4	Design and execute email marketing, mobile marketing, and affiliate marketing strategies for various business objectives.
CO5	Utilize web analytics tools to track user behavior, measure performance, and generate digital marketing insights.
CO6	Evaluate the effectiveness of digital marketing strategies using analytics tools and optimize campaigns for better performance and ROI.

Professional Elective - III

22IT904 - DevOps	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Understand the concept of DevOps Architecture.
CO2	Apply the DevOps Tools in real time applications.
CO3	Build Maven with Unit, Integration and Performance Testing
CO4	Deploy and monitor using Docker
CO5	Deploy and monitor using Jenkins
CO6	Integrate DevOps workflows by leveraging continuous integration and continuous deployment (CI/CD) pipelines to enhance efficiency, collaboration, and quality in software development and operations.

20CS614 – Advanced Aptitude and Coding Skills - II	
COs	Course Outcome: The students, after the completion of the course, are expected to
CO1	Develop advanced vocabulary for effective communication and reading skills
CO2	Build an enhanced level of logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming
CO4	Apply data structures and algorithms in problem solving.