R.M.K. ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi
Accredited by NAAC with A+ Grade / ISO 9001:2015 Certified Institution
All the Eligible UG Programs are Accredited by NBA, New Delhi.)
RSM Nagar, Kavaraipettai – 601 206.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE OUTCOMES

ACADEMIC YEAR 2025-26 EVEN DEMESTER

S.No	SEMESTER	COURSE CODE	COURSE NAME
1	4	24EE401	Digital Logic Circuits
2		24EE402	Linear Integrated Circuits
3		24EE403	Electrical Machines-I
4		24IT402	Web Development Frameworks
5		24EE911	Linux System Programming
6		24EE411	Linear and Digital Integrated Circuits Lab
7		24EE412	Circuits and Measurements Laboratory
8		24ME411	Product Development Lab-2
9		24CS411	Aptitude and Coding Skills II
10	6	22EE601	Power System Protection and control
11		22EE602	Power Electronics (Management Elective)
12		22ME917	Principles of Management (Professional Elective III)
13		22EE912	Fundamentals of Networking (Professional Elective IV)
14		22EE913	System Programming (Open Elective II
15		22CS611	Advanced Aptitude and Coding skills

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COURSE CODE	COURSE NAME	COURSE OUTCOMES
24EE401	Digital Logic Circuits	CO1: Apply Boolean algebra and gate level minimization to design digital circuits. CO2: Design basic combinational logic circuits. CO3: Design and analyze the synchronous sequential logic circuits. CO4: Write and execute Verilog codes for combinational and sequential logic circuits. CO5: Apply ROM, PLA and PAL for developing combinational logic circuits. CO6: Compare the operation and characteristics of various digital logic families.
24EE402	Linear Integrated Circuits	CO1: Demonstrate the fabrication of IC's. CO2: Analyze the performance characteristics of Op-Amp. CO3: Design Op-Amp based circuits for engineering applications. CO4: Classify and comprehend the working principle of data converters. CO5: Illustrate the function of application specific IC's such as VCO, PLL and its applications. CO6: Classify the different voltage regulators using Op-Amp.
24EE403	Electrical Machines-I	CO1: Apply the laws governing the electromechanical energy conversion for Calculating Power and Energy. CO2: Understand the construction and working principle of DC machines. CO3: Interpret various characteristics of DC machines and Identify appropriate Machines for a given Application. CO4: Compute various performance parameters and analyse the suitability of a machine for a given Application. CO5: Predetermine the performance parameters of a Transformer from the equivalent circuit. CO6: Will be able to understand different types of connection for a 3 phase Transformer along with their significance.

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COURSE CODE	COURSE NAME	COURSE OUTCOMES
24IT402	Web Development Frameworks	CO1: Apply the laws governing the electromechanical energy conversion for Calculating Power and Energy. CO2: Understand the construction and working principle of DC machines. CO3: Interpret various characteristics of DC machines and Identify appropriate Machines for a given Application. CO4: Compute various performance parameters and analyse the suitability of a machine for a given Application. CO5: Predetermine the performance parameters of a Transformer from the equivalent circuit. CO6: Will be able to understand different types of connection for a 3 phase Transformer along with their significance.
24EE911	Linux System Programming	CO1: Explain Linux application Interfaces, environment variables, and Linux system development processes. CO2: Perform file and directory operations using Linux system calls. CO3: Create and manage processes and threads in Linux using appropriate system programming techniques. CO4: Implement 'Producer – Consumer' programs using Inter-Process Communication and synchronization techniques in Linux CO5: Perform advanced file I/O operations and debug Linux programs using GDB and other tools effectively.
24EE411	Linear and Digital Integrated Circuits Lab	CO1: Explain Linux application Interfaces, environment variables, and Linux system development processes. CO2: Perform file and directory operations using Linux system calls. CO3: Create and manage processes and threads in Linux using appropriate system programming techniques. CO4: Implement 'Producer – Consumer' programs using Inter-Process Communication and synchronization techniques in Linux

COURSE CODE	COURSE NAME	COURSE OUTCOMES
		CO5: Perform advanced file I/O operations and debug Linux programs using GDB and other tools effectively.
24EE412	Circuits and Measurements Laboratory	CO1: Explain Linux application Interfaces, environment variables, and Linux system development processes. CO2: Perform file and directory operations using Linux system calls. CO3: Create and manage processes and threads in Linux using appropriate system programming techniques. CO4: Implement 'Producer – Consumer' programs using Inter-Process Communication and synchronization techniques in Linux CO5: Perform advanced file I/O operations and debug Linux programs using GDB and other tools effectively.
24ME411	Product Development Lab-2	CO1: Interpret stakeholder needs and document comprehensive functional requirements for the proposed system. CO2: Develop functional block diagrams or flowcharts to represent system interactions and functional relationships. CO3: Analyze functional specifications that define roles, behaviors, constraints, and performance expectations for each function. CO4: Evaluate the defined functional model through verification and validation techniques to ensure alignment with original requirements. CO5: Analyze and present functional design solutions aligned with the identified research problem and gap.
24CS411	Aptitude and Coding Skills II	CO1: Develop advanced vocabulary for effective communication 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. CO5: Develop advanced vocabulary for effective reading skills CO6: Apply advanced algorithm design techniques to develop programs

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22EE601	Power System Protection and control	CO1: Ability to analyze the characteristics and functions of relays. CO2: Summarize the merits and demerits and application areas of various circuit breakers. CO3: Model and analyze the control actions that are implemented to meet the minute-to minute variation of system real power demand. CO4: Model and analyze the compensators for reactive power control and various devices used for voltage control. CO5: Prepare day ahead and real time economic generation scheduling.
22EE602	Power Electronics (Management Elective)	CO1: Summarize the fundamental concepts of power electronic switches and their relevant applications. CO2: Analyze the performance of single phase and phase-controlled rectifiers and their application. CO3: Evaluate the performance of DC-DC converter in regulated power supplies. CO4: Analyze the performance of single phase and three phase inverters and their applications. CO5: Investigate the performance of single phase and three phase AC to AC converter and their applications. CO6: Simulate the various power electronic converter circuits using simulation software
22ME917	Principles of Management (Professional Elective III)	CO1: Interpret management theories and analyze the complexities of managerial activities within a global business environment, integrating diverse perspectives to address contemporary challenges effectively. CO2: Evaluate and apply various decision-making strategies at different levels of management within organizations, synthesizing approaches to optimize decision outcomes and strategic alignment.

COURSE CODE	COURSE NAME	COURSE OUTCOMES
		CO3: Compare and contrast different types of organizational structures, evaluating their suitability and effectiveness in various contexts and industries. CO4: Describe the steps in the staffing process and stages in career development, integrating knowledge to design and implement effective talent management strategies that support organizational goals and employee growth. CO5: Analyze the processes of direction, coordination, and control within organizations, synthesizing their interrelationships and impacts on organizational performance and effectiveness. CO6: Evaluate and critique various controlling techniques used to maintain standards and ensure organizational performance, synthesizing best practices to develop comprehensive control systems aligned with organizational objectives.
22EE912	Fundamentals of Networking (Professional Elective IV)	CO1: Implement the basic concepts of Networking. CO2: Analyze OSI & TCP/IP layer of Networking. CO3: Implement Network / Ethernet Phy Driver. CO4: Implement MAC Layer in Network / Ethernet Driver. CO5: Implement various Networking Protocols.
22EE913	System Programming (Open Elective II	CO1: Write System programs in Linux environment. CO2: Design and implement simple system projects. CO3: Perform advanced C programming using linked list, Function pointers, arrays, sorting. CO4: Demonstrate various debugging techniques. CO5: Design simple Embedded system projects.

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COURSE CODE	COURSE NAME	COURSE OUTCOMES
22CS611	Advanced Aptitude and Coding skills	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.