




RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE – 641 402

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING EMBEDDED SYSTEM TECHNOLOGIES

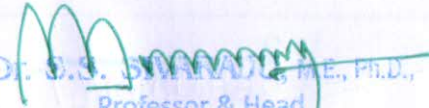
Regulation – 2017

Course ID	Semester	Course Code	Course Name	Course Outcome	Course Outcome
C101	I	MA5155	Applied Mathematics for Electrical Engineers	CO1	Apply various methods in matrix theory to solve system of linear equations.
				CO2	Maximizing and minimizing the functional that occur in electrical engineering discipline.
				CO3	Computation of probability and moments, standard distributions of discrete and continuous random variables and functions of a random variable.
				CO4	Could develop a fundamental understanding of linear programming models, able to develop a linear programming model from problem description, apply the simplex method for solving linear programming problems
				CO5	Fourier series analysis and its uses in representing the power signals.
C102	I	ET5101		CO1	Analyze and design sequential digital circuits


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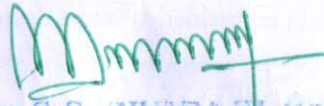

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			Advanced Digital Principles and Design	CO2	Design and use programming tools for implementing digital circuits of industry standards
				CO3	Identify the requirements and specifications of the system required for a given application
				CO4	Learners can acquire knowledge about HDL programming.
				CO5	Improved Employability and entrepreneurship capacity due to knowledge upgradation on recent trends in digital design for embedded systems.
C103	I	ET5151	Microcontroller Based System Design	CO1	8-bit microcontrollers, learn assembly and C-programming of PIC.
				CO2	learn Interfacing of Microcontroller.
				CO3	Learners will study about PIC microcontroller and system design.
				CO4	The course would enable students to enrich their knowledge with hands on experiments and project-based learning
				CO5	Effectively utilize microcontroller software development tools such as a compiler, make files, or compile scripts
C104	I	ET5152	Design of Embedded Systems	CO1	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
				CO2	Know the fundamentals of Embedded processor Modeling, Bus Communication in processors, Input/output interfacing


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				CO3	Describe the differences between the general computing system and the embedded system, also recognize the classification of embedded systems
				CO4	Design real time embedded systems using the concepts of RTOS.
				CO5	Foster ability to understand the role of embedded systems in industry
C105	I	ET5191	Software for Embedded Systems	CO1	Know the fundamentals of embedded Programming.
				CO2	Learn the GNU C Programming Tool Chain in Linux.
				CO3	study basic concepts of embedded C, Embedded OS&Python Programming
				CO4	Understand time driven architecture, Serial Interface with a case study.
				CO5	Understand the basics of PYTHON Programming
C106 E11	I	ET5091	MEMS Technology	CO1	Understand basics of microfabrication, develop models and simulate electrostatic and electromagnetic sensors and actuators
				CO2	Understand material properties important for MEMS system performance, analyze dynamics of resonant micromechanical structures
				CO3	The learning process delivers insight onto design of micro sensors, embedded sensors & actuators in power aware systems like grid.
				CO4	Understand the design process and validation for MEMS devices and systems, and learn the state of the art in optical microsystems


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				CO5	Improved Employability and entrepreneurship capacity due to knowledge up gradation on recent trends in embedded systems design.
C106 E12	I	ET5001	Advanced Computer Architecture and Parallel Processing	CO1	An ability to understand the operations of multiprocessor and multicomputer systems.
				CO2	To understand the various advanced processor technology, pipelining and scalable architectures.
				CO3	know the working of superscalar pipeline, cache memory organization.
				CO4	understand the principles of multithreading, multithread architecture, static and dynamic data flow
				CO5	Improved Employability and entrepreneurship capacity due to knowledge up gradation on recent trends in embedded systems design.
C106 E13	I	IN5092	Digital Instrumentation	CO1	Use digital integrated circuit logic family chips.
				CO2	Perform computational and measurement activities using digital techniques, build sequential and combinational logic circuits.
				CO3	Analyze working of A/D and D/A converters, use display devices for digital circuits, use digital meters for measurements.
				CO4	Graduates will understand the fundamental principles of electrical and electronics circuits and instrumentation, enabling them to understand current technology and to adapt to new devices and technologies
				CO5	Improved Employability and entrepreneurship capacity due to knowledge up gradation on recent trends in embedded systems design.


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