

363, Arcot Road, Kodambakkam, Chennai – 24 Approved by AICTE & Affiliated to Anna University email Id: principal@msec.edu.in

Website: www.msec.edu.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATION – 2017 COURSE OUTCOMES

MA8352 - Linear Algebra and Partial Differential Equations [C201]

C201.1	Interpret the basic notions of groups, rings, fields and Vector Space which will then be used to solve related problems
C201.2	Identify the concepts of vector space, linear transformations and diagonalization
C201.3	Classify and apply the concept of inner product spaces in orthogonalization processes
C201.4	Evaluate the procedure to solve partial differential equations
C201.5	Examine and Able to solve the engineering problems using Fourier series.

EC8393 - Fundamentals of Data Structures in C [C202]

C202.1	Implement Linear and Non-Linear data structure operations using C	
	mineriorit Erical and Non-Erical data structure operations using C	
C202.2	Suggest appropriate linear/non-linear data structure for any given data set	
C202.3	Apply hashing concepts for a given problem	
C202.4	Modify or suggest new data structure for an application	
C202.5	Appropriately choose the sorting algorithm for an application	

EC8351 - Electronic Circuits - I [C203]

C203.1	Understand the basic concept of biasing and design biasing for various types of amplifiers
C203.2	Design and analyse single stage and multistage BJT amplifiers
C203.3	Design and analyse single stage and multistage FET amplifiers
C203.4	Analyse the frequency response of BJT and MOSFET amplifiers
C203.5	Design, troubleshoot and fault analysis the regulated DC power supplies

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EC8352 - Signals and Systems [C204]

C204.1	Analyze & classify Continuous and Discrete time signals and to identify LTI systems
C204.2	Derive the Fourier series for continuous time signals and analyze the Fourier transform and Laplace transform of different signals
C204.3	Analyze the output response of the Continuous Time systems by performing convolution and realize the continuous Time Systems
C204.4	Analyze the Discrete Time Fourier Transform and Z transform of Discrete Time signals &Understand the sampling theorem and to convert the analog signal to discrete signal
C204.5	Analyze the output response of the Discrete Time systems by performing convolution andrealize the Discrete Time Systems

EC8392 - Digital Electronics [C205]

	Louis Lieutiums [0230]
C205.1	Simplify Boolean functions using Kmap and quine Mclasky
C205.2	Design and analyze combinational circuits
C205.3	Design and analyze Synchronous sequential circuits
C205.4	Design and Analyze Asynchronous Sequential Circuits
C205.5	Implement designs using programmable logic devices and digital integrated circuits

EC8391 - Control Systems Engineering [C206]

C206.1	Understand the methods of representation of systems and getting their transfer function models for analysis of physical systems and to introduce the control system components
C206.2	Get adequate knowledge in the time response of systems and steady state error analysis and to introduce the effects of controllers
C206.3	Obtain basic knowledge in obtaining the open loop and closed loop frequency responses of systems and to study the design of compensators
C206.4	Understand the concept of stability of control system and methods of stability analysis
C206.5	Understand the state space model of a physical system and the concepts of sampled data control system.

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EC8381 - Fundamentals of Data Structures in C Laboratory [C207]

C207.1	Write basic and advanced programs in C
C207.2	Implement functions and recursive functions in C
C207.3	Implement data structures using C
C207.4	Choose appropriate sorting algorithm for an application and implement it in a modularized way

EC8361 - Analog and Digital Circuits Laboratory [C208]

	20001 Analog and Digital Orients Euboratory [0200]	
C208.1	Design regulated power supplies	
C208.2	Design regulated power supplies	
C208.3	Simulate amplifier using SPICE	
C208.4	Design and implement combinational circuits.	
C208.5	Design and implement sequential circuits.	

HS8381 - Interpersonal Skills/Listening&Speaking [C209]

	Johnston
C209.1	Ability to listen and respond appropriately
C209.2	Ability to participate in group discussions.
C209.3	Ability to make effective presentation.
C209.4	Ability to listen/view and comprehend different spoken discourses/excerpts different accents and to speak clearly in simple language.
C209.5	Ability to participate confidently and appropriately in formal and informal conversations.

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MA8451 - Probability and Random Processes [C210]

	mile to the readmity disa realisation in recession [0210]
C210.1	Interpret the axiomatic formulation of Probability theory and random variables as an intrinsic need for the analysis of random phenomena
C210.2	Identify probability models, function of random variables based on one & two dimensional random variables and determine regression.
C210.3	Classify the concept of random processes and to demonstrate the specific applications to Poisson and Markov Processes.
C210.4	Evaluate correlation and spectral density of stationary random processes.
C210.5	Examine the idea of linear time invariant system.

EC8452 - Electronic Circuits II [C211]

C211.1	To understand the concepts and design of feedback amplifiers.
C211.2	To understand the basic concepts, design and analyze RC, LC and crystal oscillators.
C211.3	To understand the performance of tuned amplifiers.
C211.4	To understand the concepts of clipper, clamper, comparator circuits and multivibrators.
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C211.5	To understand the concepts power amplifiers and DC convertors.

EC8491 - Communication Theory [C212]

C212.1	Design AM communication systems
C212.2	Design Angle modulated communication systems
C212.3	Apply the concepts of Random Process to the design of Communication systems
C212.4	Analyze the noise performance of AM and FM systems
C212.5	Gain Knowledge in sampling and quantization

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EC8451 - Electromagnetic Fields [C213]

C213.1	Able to understand the concepts of vector calculus and vector coordinate systems
	Able to understand the behaviour of static electric field and the concept of conductors and
C213.2	dielectrics in static electric fields.
C213.3	Able to understand the behaviour of magnetic circuits and magnetic material
C213.4	To analyse Maxwell's equation in differential and integral form
C213.5	Able to analyse the propagation of EM waves in lossy and lossless media.

EC8453 - Linear Integrated Circuits [C214]

C214.1	To understand the basic building blocks of linear integrated circuits
C214.2	To understand the linear and non-linear applications of operational amplifiers
C214.3	To understand the concepts and applications of analog multipliers and PLL
C214.4	To understand the concepts of ADC and DAC using Op-Amps
C214.5	To understand the concepts of waveform generation and introduce some special function ICs

GE8291 - Environmental Science and Engineering [C215]

	GE0291 - Ellyllotimental colence and Eligineering (== 10)
C215.1	The knowledge gained on flora and fauna in our environment helps to know about social environment.
C215.2	The students will gain knowledge on the offensive effects of pollution in the day-to-day life.
C215.3	The students will acquire knowledge on the natural resources available and their conservation.
C215.4	The students will have adequate knowledge on the concepts of adverse effects of social issues like acid rain and global warming.
C215.5	The students will get knowledge about the problems faced by the society due to population explosion.

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EC8461 - Circuits Design and Simulation Laboratory [C216]

C216.1	Analyze various types of feedback amplifiers
C216.2	Design oscillators and tuned amplifiers.
C216.3	Demonstrate the various types of multivibrators.
C216.4	Simulate Oscillators, tuned amplifiers, wave-shaping circuits and multivibrators using SPICE Tool.
C216.5	Analyze various types of power amplifiers.

EC8462 - Linear Integrated Circuits Lab [C217]

C217.1	To understand the basics of linear integrated circuits and available ICs
C217.2	To understand the characteristics of the operational amplifier
C217.3	To apply operational amplifiers in linear and nonlinear applications
C217.4	To acquire the basic knowledge of special function IC.
C217.5	To use SPICE software for circuit design

EC8501 - Digital Communication [C301]

C301.1	To Design PCM systems
C301.2	To Design and implement base band transmission schemes
C301.3	To Design and implement band pass signalling schemes
C301.4	To Analyze the spectral characteristics of band pass signalling schemes and their noise performance
C301.5	To Design error control coding schemes

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EC8553 - Discrete Time Signal Processing [C302]

	<u> </u>
C302.1	Apply DFT for the analysis of digital signals and systems
C302.2	Design IIR filters
C302.3	Design FIR filters and Characterize finite word length effects on filters
C302.4	Analyse Finite word length effect
C302.5	Study the architecture, addressing modes and programming of DSP processor

EC8552 - Computer Architecture and Organization [C303]

C303.1	Describe Data representation, instruction formats and the operation of a digital computer
C303.2	Illustrate the fixed point and floating-point arithmetic for ALU operation
C303.3	Discuss about implementation schemes of control unit and pipeline performance.
C303.4	Explain the concept of various memories, interfacing and organization of multiple processors
C303.5	Discuss parallel processing technique and unconventional architectures.

EC8551 - Communication Networks [C304]

C304.1	Able to explain the components requirement of networks and link layer service.
C304.2	Able to classify the Media Access Control Protocols and different Internetworking.
C304.3	Able to Demonstrate various types of routing techniques.
C304.4	Able to outline the mechanisms involved in transport layer.
000	
C304.5	Able to experiment with different application layer protocols.

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EC8073 - Medical Electronics [C305 A]

	EC8073 - Medical Electromos (Section 7	
C305.1	Discuss the terminologies of electro-physiological and recording of bio-potential.	
C305.2	Comprehend the measurement techniques of bio-chemical and non-electrical parameters.	
C305.3	Interpret the various types of assist devices.	
C305.4	Comprehend the various diathermy and bio-telemetry techniques.	
C305.5	Outline current trends in medical instrumentation.	

EC8074 - Robotics & Automation [C305 B]

	EC8074 - Robbitcs & Automation [Cost =]
C305.1	Identify components, advantages, disadvantages, applications of robots and review the history of robotic evolution.
C305.2	Understand actuators and sensors for measurement of parameters used in robot manipulator.
C305.3	Solve direct and inverse kinematics of simple robot manipulators.
C305.4	Develop mathematical equations related to robot kinematics, dynamics and path planning.
C305.5	Understand the impact and progress in AI and other research trends in the field of robotics

OIT552 - Cloud Computing [C306 A]

	OIT552 - Cloud Computing [Covers]
C306.1	Articulate the main concepts, key technologies, strengths and limitations of cloud computing
C306.2	Learn the key and enabling technologies that help in the development of cloud
C306.3	Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models.
C306.4	Explain the core issues of cloud computing such as resource management and security
C306.5	Be able to install and use current cloud technologies and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud

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EC8562 - Digital Signal Processing Laboratory [C307]

	EC0302 - Digital Signal Processing East-acts, [
C307.1	To implement Linear and Circular Convolution
C307.2	To implement FFT and IFFT algorithms
C307.3	To implement FIR and IIR filters
C307.4	To study the architecture of DSP processor
C307.5	To demonstrate Finite word length effect effect

EC8561 - Communication Systems Laboratory [C308]

	EC0301 - Communication Cycles	
C308.1	Simulate and validate the various functional modules of a communication system	
C308.2	Demonstrate their knowledge in baseband signaling schemes through implementation of digital modulation schemes	
C308.3	Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of communication system	
C308.4	Simulate end to end communication link	

EC8563 - Communication Networks Laboratory [C309]

	EC6303 - Communication	
C309.1	Communicate between two desktop computers	
C309.2	Implement the different flow control protocols	S.L. 1987
C309.3	Write program using sockets	
C309.4	Implement and compare various routing algorithms	
C309.5	Use the network simulation tool	

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EC8691 - Microprocessors and Microcontrollers [C310]

C310.1	Understand architecture of 8086 and Design and implement programs on 8086 microprocessor.
C310.2	Understand signals, system bus architecture of 8086 and multiprocessor configuration.
C310.3	Design and implement interfacing of I/O circuits with 8086 microprocessor
C310.4	Understand architecture of 8051microcontroller.
C310.5	Understand architecture of 8051, Design and implement programs on 8051 microcontroller.

EC8095 - VLSI Design [C311]

	. 1
C311.1	Realize the concepts of digital building blocks using MOS transistor.
C311.2	Design combinational MOS circuits and power strategies.
C311.3	Design and construct Sequential Circuits and Timing systems.
C311.4	Design arithmetic building blocks and memory subsystems.
C311.5	Apply and implement FPGA design flow and testing.

EC8652 - Wireless Communication [C312]

C312.1	Able to Characterize a wireless channel and evolve the system design specifications
C312.2	Able to Design a cellular system based on resource availability and traffic demands.
C312.3	Able to Identify suitable signalling and multipath mitigation techniques for the wireless channel and system under consideration
C312.4	Able to understand the concepts of diversity in channels.
C312.5	Able to understand the concepts of fading and non- fading channels

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MG8591 - Principles of Management [C313]

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C313.1	Understand the managerial functions like planning, organizing, staffing, leading & controlling
C313.2	The basic knowledge on international aspect of management
C313.3	The basic knowledge on management and its evolution
C313.4	A knowledge on budgetary control and their strategies
C313.5	A understanding of the motivational theories existing in the management

EC8651 - Transmission Lines and RF Systems [C314]

C314.1	Discuss the signal propagation through transmission lines.
	Discuss the difference between low frequency transmission and propagation at Radio
C314.2	Frequencies.
C314.3	Analyse impedance matching techniques using stubs.
C314.4	Analyse the various modes of propagation of wave guides and cavity resonators.
	Analyse the various functions of different RF systems and stability considerations of RF
	systems.

EC8004 - Wireless Networks [C315]

	Able to understand the architecture, protocol stack and services offered by Wireless Local
C315.1	Area Networks.
C315.2	Able to understand the basics of mobile IP networks, mechanism behind packet delivery and various routing protocols of MANETs.
C315.3	Able to understand the architecture of UMTS, protocol layers and various services offered by 3G networks.
C315.4	Able to understand the internetworking architecture of WLANS & WWANS.
C315.5	Able to understand the motivation behind 4G evolution and various technologies developed for 4G networks.

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EC8681 - Microprocessors and Microcontrollers Laboratory [C316]

	Locot - Microprocessors and microcontroller Landing Control
C316.1	Write ALP for arithmetic and logical operations
C316.2	Interface different I/O's with processor
C316.3	Generate waveforms using Microprocessors
C316.4	Execute programs in 8051
C316.5	Familiar with 8086 and 8051 Simulators.

EC8661 - VLSI Design Laboratory [C317]

C317.1	Write HDL code for basic as well as advanced digital integrated circuit
C317.2	Import the logic modules into FPGA Boards
C317.3	Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools

EC8611 - Technical Seminar [C318]

C318.1	Identify the domain specific engineering problem for presentation.
C318.2	Prepare the document with proper work plan.
C318.3	Compare and analyze the emerging technology.
C318.4	Show the presentation skill in front of the audience.
C318.5	Discuss with the peer members.

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HS8581 – Professional Communication [C319]

	HS8581 – Professional Communication [C319]
C319.1	Enhance the students to make effective presentations.
	Help the students participate confidently in Group Discussions.
C319.2	Motivate and prepare the students to attend job interviews and be successful in their pursuit.
C319.3	
C319.4	Train and develop the adequate Soft Skills required for the workplace.
C319.5	Interpret different genres of texts, infer implied meanings and evaluate it for ideas as well as for methods of presentation relevant in different situations.

EC8701 - Antennas & Microwave Engineering [C401]

	EC8701 - Antennas a microvars
C401.1	Apply the basic principles and evaluate antenna parameters and link power budgets
C401.2	Design and assess the performance of various antennas
C401.3	Analyse Antenna Array and its different mode of operation
C401.4	Analyse various operation of microwave passive devices and microwave generators
C401.5	Design a microwave system given the application specifications

EC8751 - Optical Communication [C402]

EC8751 – Optical Communication [C402]	
C402.1	Realize basic elements in optical fibers, different modes and configurations.
C402.2	Analyze the transmission characteristics associated with dispersion and polarization techniques
C402.3	Design optical sources and detectors with their use in optical communication system.
C402.4	Construct fiber optic receiver systems, measurements and coupling techniques.
C402.5	Design optical communication systems and its networks.

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EC8791 – Embedded and Real Time Systems [C403]

	200701 - Embedded and Roaf Timo Systems 1
C403.1	Interpret the concepts of embedded system design and analysis.
C403.2	Describe the architecture and programming of ARM Processor.
C403.3	Analyze the performance and optimization techniques of embedded programming components.
C403.4	Explain the basic concepts of Real Time System for Embedded system design
C403.5	Evaluate the Real time operating system performance and power optimization strategies for embedded system process.

EC8702 – Ad hoc and Wireless Sensor Networks [C404]

	EG0702 7/4 1100 strain
C404.1	Explain the various protocols of Adhoc networks
C404.2	Describe the Architecture of Wireless Sensor Network.
C404.3	Describe the Wireless Sensor Network concepts and protocol.
C404.4	Discuss about the Network Security in Sensor based network.
C404.5	Discuss about the Wireless Sensor Network software tools.

GE8071 – Disaster Management

	and their impact on environment and society
C405.1	Differentiate the types of disasters, causes and their impact on environment and society
C405.2	Assess vulnerability and various methods of risk reduction measures as well as mitigation.
C405.3	Draw the hazard and vulnerability profile of India, Scenarios in the Indian context, Disaster damage assessment and management.
	Gain knowledge on Role of GIS and Information Technology Components in Preparedness,
C405.4	Gain knowledge on Space Based Inputs for Disaster Mitigation and Management and field
C405.5	works related to disaster management.

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OME754 - Industrial Safety [C406A]

	OME754 – Industrial Safety [C400A]
C406A.1	Identify the various possible hazards in different fields of engineering
-	Classify various hazards based on their nature and severity
C406A.2	Apply the principles for maintaining safety, occupational health and hygiene in an
C406A.3	Apply the principles for maintaining safety, occupations industry
	Examine the factors that lead to an accident
C406A.4	Plan the safety measures appropriate for an industry.
C406A.5	Plan the safety measures appropriate for an area

OCS751 - Data Structures & Algorithms [C406A]

	OCS751 - Data Structures & Algertament various linear
C406B.1	Understand the various algorithm design and analysis techniques and Implement various linear data structures operations and applications using List ADT.
C406B.2	Implement and apply the linear data structures stack and queue to problem solutions.
C406B.3	techniques for searching and sorting.
C406B.4	Represent and manipulate data using nonlinear data structure tree to design algorithms for various applications.
C406B.5	Implement and apply the nonlinear data structure Graph ADT to problem solutions using dynamic programming and greedy approach.

OCS752 - Introduction to C Programming [C406B]

OCS752 – Introduction to C Programming [04005]	
C406C.1	Develop executable C programs with decision making and looping statements, which illustrate the use of various operators.
C406C.2	Write executable C programs which process the data that are stored in an array.
C406C.2	Write executable C programs which process the data that are processing and Create executable C programs to process strings and use pointers for array processing and
C406C.3	- aremotor passing
C406C.4	Divide a given computational problem into a number of modules called functions and develop multi-function C program by using recursion if required, to solve the computational problem.
C406C.5	Develop executable C programs with structure for storing the data to be processed

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EC8711 - Embedded Laboratory [C407]

EC8711 – Embedded Laboratory [C407]	
C407.1	Understand the Building Blocks of ARM CORTEX M4 Embedded Kit.
C407.2	Write programs in ARM for a specific Application
C407.3	Interface A/D and D/A convertors with ARM system
C407.4	Write program for interfacing motor and sensor.
C407.5	Write program for interfacing keypad and LCD.

EC8761 - Advanced Communication Laboratory [C408]

	EC8761 - Advanced Communication Laboration
C408.1	Analyze the performance of simple optical link by measurement of losses and analyzing the mode characteristics of fiber
C408.2	Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER Estimate the Wireless Channel Characteristics and analyze the performance of Wireless
C408.3	Understand the characteristics of Microwave Sources
C408.5	Understand the Characteristics in Microwave System design

GE8076 - Professional Ethics in Engineering [C409]

	Gain awareness on human values for professional excellence and stress management
C409.1	Gain awareness on numan values to
	Gain knowledge on engineering ethics, moral issues & uses of ethical theories
C409.2	Gain knowledge on engineering carries,
100	Understand the role of engineers as responsible experimenters along with courses of ethics in
C409.3	engineering field.
	Gain awareness of responsibilities of an engineer for safety and risc along with risc benefit
C409.4	analysis
C409.5	Acquire knowledge on global issues and able to apply ethical principles to resolve situations that arise in their professional lives

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EC8094 - Satellite Communication [C410A]

C410A.1	Analyze the satellite orbit
C410A.2	Analyze the earth segment and space segment
C410A.3	Analyze the various methods of satellite access
C410A.4	Analyze the satellite Link design
C410A.5	Design various satellite applications

IT8006- Principles of Speech Processing [C410]

C410.1	Understand the Fundamentals of speech production
C410.2	To understand the speech compression techniques
C410.3	To understand the speech recognition techniques
C410.4	Deal with the issues in speech recognition
C410.5	Explain the concept of Text-to-Speech Synthesis

EC8811- Project Work [C411]

C411.1	Apply the fundamental knowledge and skills in engineering and effectively formulate a project.
C411.2	Plan and manage the time effectively as a team.
C411.3	Orally present and demonstrate the product to peers, academics, general and industry community.
C411.4	Consider the business context and commercial positioning of designed devices or systems
C411.5	Explore the knowledge for the 'real world' situations that a professional engineer can encounted

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