



NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Vadapudupatti, Annanji (po), Theni - 625 531,
Tamilnadu, India.

DEPARTMENT OF ECE COs

S.NO	YEAR/SEM	COURSE NAME	COURSE CODE	COURSE OUTCOME
1		HS8151 Communicative English	C101.1	Read articles of a general kind in magazines and newspapers.
			C101.2	Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English.
			C101.3	Comprehend conversations and short talks delivered in English
			C101.4	Write short essays of a general kind and personal letters and emails in English.
2		MA8151 Engineering Mathematics - I	C102.1	Use both the limit definition and rules of differentiation to differentiate functions.
			C102.2	Apply differentiation to solve maxima and minima problems.
			C102.3	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.
			C102.4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.
			C102.5	Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
			C102.6	Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
			C102.7	Apply various techniques in solving differential equations.
			C103.1	The students will gain knowledge on the basics of properties of matter and its applications
			C103.2	The students will acquire knowledge on the concepts of waves and optical devices and



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3		PH8151 Engineering Physics		their applications in fibre optics
			C103.3	The students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers
			C103.4	The students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes
			C103.5	The students will understand the basics of crystals, their structures and different crystal growth techniques.
4	I/I	CY8151 Engineering Chemistry	C104.1	The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.
5		GE8151 Problem Solving and Python Programming	C105.1	Develop algorithmic solutions to simple computational problems
			C105.2	Read, write, execute by hand simple Python programs.
			C105.3	Structure simple Python programs for solving problems.
			C105.4	Decompose a Python program into functions.
			C105.5	Represent compound data using Python lists, tuples, dictionaries.
			C105.6	Read and write data from/to files in Python Programs.
6		GE8152 Engineering Graphics	C106.1	Familiarize with the fundamentals and standards of Engineering graphics
			C106.2	Perform freehand sketching of basic geometrical constructions and multiple views of objects.
			C106.3	Project orthographic projections of lines and plane surfaces.



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			C106.4	Draw projections and solids and development of surfaces.
			C106.5	Visualize and to project isometric and perspective sections of simple solids.
7	GE8161 Problem Solving and Python Programming Laboratory		C107.1	Write, test, and debug simple Python programs.
			C107.2	Implement Python programs with conditionals and loops.
			C107.3	Develop Python programs step-wise by defining functions and calling them.
			C107.4	Use Python lists, tuples, dictionaries for representing compound data.
			C107.5	Read and write data from/to files in Python.
8	BS8161 Physics and Chemistry Laboratory		C108.1	Apply principles of elasticity, optics and thermal properties for engineering applications.
			C108.2	The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters.
9	HS8251 Technical English		C201.1	Read technical texts and write area-specific texts effortlessly.
			C201.2	Listen and comprehend lectures and talks in their area of specialisation successfully.
			C201.3	Speak appropriately and effectively in varied formal and informal contexts.
			C201.4	Write reports and winning job applications.
10	MA8251 Engineering Mathematics - II		C202.1	Eigenvalues and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.
			C202.2	Gradient, divergence and curl of a vector point function and related identities.
			C202.3	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and



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				their verification.
			C202.4	Analytic functions, conformal mapping and complex integration.
			C202.5	Analytic functions, conformal mapping and complex integration.
11	I/II	PH8253 Physics for Electronics Engineering	C203.1	Gain knowledge on classical and quantum electron theories, and energy band structures,
			C203.2	Acquire knowledge on basics of semiconductor physics and its applications in various devices,
			C203.3	Get knowledge on magnetic and dielectric properties of materials,
			C203.4	Have the necessary understanding on the functioning of optical materials for optoelectronics,
			C203.5	Understand the basics of quantum structures and their applications in spintronics and carbon electronics..
12		BE8254 Basic Electrical and Instrumentation Engineering	C204.1	Understand the concept of three phase power circuits and measurement.
			C204.2	Comprehend the concepts in electrical generators, motors and transformers
			C204.3	Choose appropriate measuring instruments for given application
13		EC8251 Circuit Analysis	C205.1	Develop the capacity to analyze electrical circuits, apply the circuit theorems in real time
			C205.2	Design and understand and evaluate the AC and DC circuits.
14		EC8252 Electronic Devices	C206.1	Explain the V-I characteristic of diode, UJT and SCR
			C206.2	Describe the equivalence circuits of transistors
			C206.3	Operate the basic electronic devices such as PN junction diode, Bipolar and Field effect Transistors, Power control devices, LED, LCD and other Opto-electronic devices
15		EC8261 Circuits and Devices	C207.1	Analyze the characteristics of basic electronic devices
			C207.2	Design RL and RC circuits
				Verify Thevinin & Norton



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		Laboratory	C207.3	theorem KVL & KCL, and Super Position Theorems
16	GE8261 Engineering Practices Laboratory		C208.1	Fabricate carpentry components and pipe connections including plumbing works.
			C208.2	Use welding equipments to join the structures.
			C208.3	Carry out the basic machining operations
			C208.4	Make the models using sheet metal works
			C208.5	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and
			C208.6	fittings
			C208.7	Carry out basic home electrical works and appliances
			C208.8	Measure the electrical quantities
			C208.9	Elaborate on the components, gates, soldering practices.
17	MA8352 Linear Algebra and Partial Differential Equations		C301.1	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.
			C301.2	Demonstrate accurate and efficient use of advanced algebraic techniques.
			C301.3	Demonstrate their mastery by solving non - trivial problems related to the concepts and by proving simple theorems about the statements proven by the text.
			C301.4	Able to solve various types of partial differential equations. Able to solve engineering problems using Fourier series.
18	EC8393 Fundamentals of Data Structures In C		C302.1	Implement linear and non-linear data structure operations using C
			C302.2	Suggest appropriate linear / non-linear data structure for any given data set.
			C302.3	Apply hashing concepts for a given problem
			C302.4	Modify or suggest new data structure for an application
			C302.5	Appropriately choose the sorting algorithm for an application



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19	II/III	EC8351 Electronic Circuits- I	C303.1	Acquire knowledge of 45 PERIODS Working principles, characteristics and applications of BJT and FET Frequency response characteristics of BJT and FET amplifiers
			C303.2	Analyze the performance of small signal BJT and FET amplifiers - single stage and multi stage amplifiers
			C303.3	Apply the knowledge gained in the design of Electronic circuits
20		EC8352 Signals and Systems	C304.1	To be able to determine if a given system is linear/causal/stable
			C304.2	Capable of determining the frequency components present in a deterministic signal
			C304.3	Capable of characterizing LTI systems in the time domain and frequency domain
			C304.4	To be able to compute the output of an LTI system in the time and frequency domains
21		EC8392 Digital Electronics	C305.1	Use digital electronics in the present contemporary world
			C305.2	Design various combinational digital circuits using logic gates
			C305.3	Do the analysis and design procedures for synchronous and asynchronous sequential circuits
			C305.4	Use the semiconductor memories and related technology
			C305.5	Use electronic circuits involved in the design of logic gates
22	EC8391 Control Systems Engineering	C306.1	Identify the various control system components and their representations.	
		C306.2	Analyze the various time domain parameters.	
		C306.3	Analysis the various frequency response plots and its system.	
		C306.4	Apply the concepts of various system stability criterions.	
		C306.5	Design various transfer functions of digital control system using state variable models.	
		C307.1	Write basic and advanced	



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23		EC8381 Fundamentals of Data Structures in C Laboratory		programs in C
			C307.2	Implement functions and recursive functions in C
			C307.3	Implement data structures using C
			C307.4	Choose appropriate sorting algorithm for an application and implement it in a modularized way
24		EC8361 Analog and Digital Circuits Laboratory	C308.1	Design and Test rectifiers, filters and regulated power supplies.
			C308.2	Design and Test BJT/JFET amplifiers.
			C308.3	Differentiate cascode and cascade amplifiers.
			C308.4	Analyze the limitation in bandwidth of single stage and multi stage amplifier
			C308.5	Measure CMRR in differential amplifier
			C308.6	Simulate and analyze amplifier circuits using PSpice.
			C308.7	Design and Test the digital logic circuits.
25		HS8381 Interpersonal Skills/Listening &Speaking	C309.1	Listen and respond appropriately.
			C309.2	Participate in group discussions
			C309.3	Make effective presentations
			C309.4	Participate confidently and appropriately in conversations both formal and informal
26	II/IV	MA8451 Probability and Random Processes	C401.1	Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon.
			C401.2	Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.
			C401.3	Apply the concept random processes in engineering disciplines.
			C401.4	Understand and apply the concept of correlation and spectral densities.
				The students will have an



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			C401.5	exposure of various distribution functions and help in acquiring skills in handling situations involving more than one variable. Able to analyze the response of random inputs to linear time invariant systems.
27	EC8452 Electronic Circuits II	C402.1	Analyze different types of amplifier, oscillator and multivibrator circuits	
		C402.2	Design BJT amplifier and oscillator circuits	
		C402.3	Analyze transistorized amplifier and oscillator circuits	
		C402.4	Design and analyze feedback amplifiers	
		C402.5	Design LC and RC oscillators, tuned amplifiers, wave shaping circuits, multivibrators, power amplifier and DC convertors.	
28	EC8491 Communication Theory	C403.1	Design AM communication systems	
		C403.2	Design Angle modulated communication systems	
		C403.3	Apply the concepts of Random Process to the design of Communication systems	
		C403.4	Analyze the noise performance of AM and FM systems	
		C403.5	Gain knowledge in sampling and quantization	
29	EC8451 Electromagnetic Fields	C404.1	Display an understanding of fundamental electromagnetic laws and concepts	
		C404.2	Write Maxwell's equations in integral, differential and phasor forms and explain their physical meaning	
		C404.3	Explain electromagnetic wave propagation in lossy and in lossless media	
		C404.4	Solve simple problems requiring estimation of electric and magnetic field quantities based on these concepts and laws	
			C405.1	Design linear and non linear applications of OP – AMPS



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30	EC8453 Linear Integrated Circuits	C405.2	Design applications using analog multiplier and PLL
		C405.3	Design ADC and DAC using OP – AMPS
		C405.4	Generate waveforms using OP – AMP Circuits
		C405.5	Analyze special function ICs
31	GE8291 Environmental Science and Engineering	C406.1	Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection. One will obtain knowledge on the following after completing the course.
		C406.2	Public awareness of environmental is at infant stage.
		C406.3	Ignorance and incomplete knowledge has lead to misconceptions
		C406.4	Development and improvement in std. of living has lead to serious environmental disasters
32	EC8461 Circuits Design and Simulation Laboratory	C407.1	Analyze various types of feedback amplifiers
		C407.2	Design oscillators, tuned amplifiers, wave-shaping circuits and multivibrators
		C407.3	Design and simulate feedback amplifiers, oscillators, tuned amplifiers, wave-shaping circuits and multivibrators using SPICE Tool.
33	EC8462 Linear Integrated Circuits Laboratory	C408.1	Design amplifiers, oscillators, D-A converters using operational amplifiers.
		C408.2	Design filters using op-amp and performs an experiment on frequency response.
		C408.3	Analyze the working of PLL and describe its application as a frequency multiplier.
		C408.4	Design DC power supply using ICs.
		C408.5	Analyze the performance of filters, multivibrators, A/D



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				converter and analog multiplier using SPICE.
34		EC8501 Digital Communication	C501.1	Design PCM systems
			C501.2	Design and implement base band transmission schemes
			C501.3	Design and implement band pass signaling schemes
			C501.4	Analyze the spectral characteristics of band pass signaling schemes and their noise performance
			C501.5	Design error control coding schemes
35		EC8553 Discrete-Time Signal Processing	C502.1	Apply DFT for the analysis of digital signals and systems
			C502.2	Design IIR and FIR filters
			C502.3	Characterize the effects of finite precision representation on digital filters
			C502.4	Design multirate filters
			C502.5	Apply adaptive filters appropriately in communication systems
36	III/V	EC8552 Computer Architecture and Organization	C503.1	Describe data representation, instruction formats and the operation of a digital computer
			C503.2	Illustrate the fixed point and floating-point arithmetic for ALU operation
			C503.3	Discuss about implementation schemes of control unit and pipeline performance
			C503.4	Explain the concept of various memories, interfacing and organization of multiple processors
			C503.5	Discuss parallel processing technique and unconventional architectures
37		EC8551 Communication Networks	C504.1	Identify the components required to build different types of networks
			C504.2	Choose the required functionality at each layer for given application
			C504.3	Identify solution for each functionality at each layer
				Trace the flow of information



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			C504.4	from one node to another node in the network
38	EC8073 Medical Electronics	C505.1	Know the human body electro-physiological parameters and recording of bio-potentials	
		C505.2	Comprehend the non-electrical physiological parameters and their measurement – body temperature, blood pressure, pulse, blood cell count, blood flow meter etc.	
		C505.3	Interpret the various assist devices used in the hospitals viz. pacemakers, defibrillators, dialyzers and ventilators	
		C505.4	Comprehend physical medicine methods eg. ultrasonic, shortwave, microwave surgical diathermies , and bio-telemetry principles and methods	
		C505.5	Know about recent trends in medical instrumentation	
		C506.1	To Learn the different bio potential and its propagation.	
39	OMD551 Basics of Biomedical Instrumentation	C506.2	To get Familiarize the different electrode placement for various physiological recording	
		C506.3	Students will be able design bio amplifier for various physiological recording	
		C506.4	Students will understand various technique non electrical physiological measurements	
		C506.5	Understand the different biochemical measurements	
		C507.1	Carryout basic signal processing operations	
40	EC8562 Digital Signal Processing Laboratory	C507.2	Demonstrate their abilities towards MATLAB based implementation of various DSP systems	
		C507.3	Analyze the architecture of a DSP Processor	
		C507.4	Design and Implement the FIR and IIR Filters in DSP Processor for performing filtering operation over real-time signals	
		C507.5	Design a DSP system for various	



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				applications of DSP
41	EC8561 Communication Systems Laboratory	C508.1	Simulate & validate the various functional modules of a communication system	
		C508.2	Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes	
		C508.3	Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of communication system	
		C508.4	Simulate end-to-end communication Link	
42	EC8563 Communication Networks Laboratory	C509.1	Communicate between two desktop computers	
		C509.2	Implement the different protocols	
		C509.3	Program using sockets.	
		C509.4	Implement and compare the various routing algorithms	
		C509.5	Use the simulation tool.	
43	EC8691 Microprocessors and Microcontrollers	C601.1	Understand and execute programs based on 8086 microprocessor.	
		C601.2	Design Memory Interfacing circuits.	
		C601.3	Design and interface I/O circuits.	
		C601.4	Design and implement 8051 microcontroller based systems.	
44	EC8095 VLSI Design	C602.1	Realize the concepts of digital building blocks using MOS transistor.	
		C602.2	Design combinational MOS circuits and power strategies.	
		C602.3	Design and construct Sequential Circuits and Timing systems.	
		C602.4	Design arithmetic building blocks and memory subsystems.	
		C602.5	Apply and implement FPGA design flow and testing.	
45	EC8652 Wireless Communication	C603.1	Characterize a wireless channel and evolve the system design specifications	
		C603.2	Design a cellular system based on resource availability and traffic demands	



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			C603.3	Identify suitable signaling and multipath mitigation techniques for the wireless channel and system under consideration.
46	III/VI	MG8591 Principles of Management	C604.1	Upon completion of the course, students will be able to have clear understanding
			C604.2	Managerial functions like planning, organizing, staffing, leading & controlling and have same basic knowledge on international aspect of management
47		EC8651 Transmission Lines and RF Systems	C605.1	Explain the characteristics of transmission lines and its losses
			C605.2	Write about the standing wave ratio and input impedance in high frequency transmission lines
			C605.3	Analyze impedance matching by stubs using smith charts
			C605.4	Analyze the characteristics of TE and TM waves
			C605.5	Design a RF transceiver system for wireless communication
48		EC8681 Microprocessors and Microcontrollers Laboratory	C606.1	Write ALP Programmes for fixed and Floating Point and Arithmetic operations
			C606.2	Interface different I/Os with processor
			C606.3	Generate waveforms using Microprocessors
			C606.4	Execute Programs in 8051
			C606.5	Explain the difference between simulator and Emulator
49		EC8661 VLSI Design Laboratory	C607.1	Write HDL code for basic as well as advanced digital integrated circuit
			C607.2	Import the logic modules into FPGA Boards
			C607.3	Synthesize Place and Route the digital IPs
			C607.4	Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools
50		EC8611 Technical Seminar	C608.1	Ability to review, prepare and present technological developments



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			C608.2	Ability to face the placement interviews
51		HS8581 Professional Communication	C609.1	Make effective presentations
			C609.2	Participate confidently in Group Discussions.
			C609.3	Attend job interviews and be successful in them.
			C609.4	Develop adequate Soft Skills required for the workplace
52		EC8701 Antennas and Microwave Engineering	C701.1	Apply the basic principles and evaluate antenna parameters and link power budgets
			C701.2	Design and assess the performance of various antennas
			C701.3	Design a microwave system given the application specifications
53		EC8751 Optical Communication	C702.1	Realize basic elements in optical fibers, different modes and configurations.
			C702.2	Analyze the transmission characteristics associated with dispersion and polarization techniques.
			C702.3	Design optical sources and detectors with their use in optical communication system.
			C702.4	Construct fiber optic receiver systems, measurements and coupling techniques.
			C702.5	Design optical communication systems and its networks.
54		EC8791 Embedded and Real Time Systems	C703.1	Describe the architecture and programming of ARM processor
			C703.2	Outline the concepts of embedded systems
			C703.3	Explain the basic concepts of real time operating system design
			C703.4	Model real-time applications using embedded-system concepts
55		EC8702 Ad hoc and Wireless Sensor	C704.1	Know the basics of Ad hoc networks and Wireless Sensor Networks
			C704.2	Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement
				Apply the knowledge to identify



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	IV/VII	Networks	C704.3	appropriate physical and MAC layer protocols
			C704.4	Understand the transport layer and security issues possible in Ad hoc and sensor networks.
			C704.5	Be familiar with the OS used in Wireless Sensor Networks and build basic modules
56		OIC751 Transducer Engineering	C705.1	Ability to model and analyze transducers.
57		EC8711 Embedded Laboratory	C706.1	Write programs in ARM for a specific Application
			C706.2	Interface memory, A/D and D/A convertors with ARM system
			C706.3	Analyze the performance of interrupt
			C706.4	Write program for interfacing keyboard, display, motor and sensor.
			C706.5	Formulate a mini project using embedded system
58		EC8761 Advanced Communication Laboratory	C707.1	Analyze the performance of simple optical link by measurement of losses and Analyzing the mode characteristics of fiber
			C707.2	Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER
			C707.3	Estimate the Wireless Channel Characteristics and Analyze the performance of Wireless Communication System
			C707.4	Understand the intricacies in Microwave System design
59	IV/VIII	GE8076 Professional Ethics in Engineering	C801.1	Upon completion of the course, the student should be able to apply ethics in society, discuss the ethical issues related to engineering and realize the responsibilities and rights in the society.
60		EC8094 Satellite Communication	C802.1	Analyze the satellite orbits
			C802.2	Analyze the earth segment and space segment
	C802.3		Analyze the satellite Link design	

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			C802.4	Design various satellite applications
61		EC8811 Project Work	C803.1	On Completion of the project work students will be in a position to take up any challenging practical problems and find solution by formulating proper methodology.

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