AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY



(Approved by AICTE, Recg. By Govt. of T.S. & Affiliated to JNTUH, Hyderabad)

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

- 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the Institution are stated and displayed on website and attainment of POs and COs are evaluated.
- **PO.1.Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO.2.Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO.3.Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO.4.Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO.5.Modern tool usage:**Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO.6.The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO.7. Environment and sustainability:**Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO.8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO.9.** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO.10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO.11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

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PO.12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Electronics and Communication Engineering I & II SEM Course Outcomes For the A.Y 2022-23

S.no	Year/Sem	Course Name	Course Outcomes Course Outcomes
			CO1: Know the characteristics of various components.
,	** *	ELECTRONIC DEVICES AND CIRCUITS	CO2: Understand the utilization of components.
1	II-I		CO3: Understand the biasing techniques
			CO4: Design and analyze small signal amplifier circuits.
			CO1: Gain the knowledge on basic RLC circuits behavior.
2	II-I	NETWORK ANALYSIS AND	CO2; Analyze the Steady state and transient analysis of RLC Circuits
	11-1	TRANSMISSIONLINES	CO3: Know the characteristics of two port network parameters
			CO4: Analyze the transmission line parameters and configurations.
		I DIGITAL SYSTEM DESIGN	CO1: Understand the numerical information in different forms and Boolean Algebra theorems
3	II-I		CO2: Postulates of Boolean algebra and to minimize combinational functions
			CO3: Design and analyze combinational and sequential circuits
			CO4: Known about the logic families and realization of logic gates.
		II-I SIGNALS AND SYSTEMS	CO1: Differentiate various signal functions
4	11-1		CO2:Represent any arbitrary signal in time and frequency domain.
			CO3:Understand the characteristics of linear time invariant systems.
			CO4:Analyze the signals with different transform technique
			CO1: Understand the concepts of Random Process and its Characteristics
5	11_1	II-I PROBABILITY AND SKOCHASTIC PROCESSES	CO2: Understand the response of linear time Invariant system for a Random Processes.
	11-1		CO3: Determine the Spectral and temporal characteristics of Random Signals
			CO4: Understand the concepts of Noise in Communication systems. PRINCIPAL
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			CO1:Ability to analyze PN junctions in semiconductor devices under various conditions.
	II-I	ELECTRONIC DEVICES AND CIRCUITS LAB	CO2; Ability to design and analyze simple rectifiers and voltage regulators using diodes.
6			CO3:Ability to describe the behavior of special purpose diodes.
			CO4:Ability to design and analyze simple BJT and MOSFET circuits.
			CO1: Apply the concept of Boolean algebra to verify the truth table of various expressions
			CO2 :Make use of dataflow, structural and behavioral modeling styles of HDL for
_	77.7	DIGITAL SYSTEMS DESIGN LAB	CO3:Analyze the SR flip flop, JK flip flop, D flip flop, T flip flops for functional
7	II-I	DIGITAL SYSTEMS DESIGN LAB	CO4:Build the universal shift registers, counters using the flip flops
			CO5:Examine a finite state machine for detection of sequence.
			CO6:Design the real time applications like traffic light controller, chess clock controller
			•
			CO1:Acquainted with MATLAB commands, functions and programming
1		II-I BASIC SIMULATION LAB	CO2:Generate various signals and sequences in MATLAB and perform operations on them.
	11.1		CO3:Determine the Convolution and Correlation between Signals and Sequences.
8	11-1		CO4:Verify the properties of a given Continuous/Discrete System and Sampling theorem
			CO5:Determine the Laplace and Fourier Transform of the given signal.
			CO6: Determine LTI system response.
			CO1:To realise the significance of constitution of India to students from all walks of life and
			CO2:To identify the importance of fundamental rights aswell as fundamental duties
9	II-I	II-I CONSTITUTION OF INDIA	CO3:To understand the functioning of Union, State and Local Governments in Indian federal
			CO4:To learn procedure and effects of emergency, composition and activities of election
			CO1: Use the Laplace transforms techniques for solving ODE's
			CO2:Estimate the value for the given data using interpolation
	77 77	LAPLACE TRANSFORMS,	CO3:Estimate the value for the given data using interpolation
10	II-II	II-II NUMERICAL METHODS AND COMPLEX VARIABLES	CO4: CO4:Find the numerical solutions for a given ODE's
		Com Ben Time Bell	CO5:Analyze the complex function with reference to their analyticity, integration using Cauchy's
			CO6:integral and residue theorems Taylor's and Laurent's series expansions of complex function
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11	II-II	ELECTROMAGNETIC FIELDS AND	CO1:Get the knowledge of Basic Laws, Concepts and proofs related to Electrostatic Fields and CO2:Distinguish between the static and time-varying fields, establish the corresponding sets of
11	11-11	ELECTROMAGNETIC FIELDS AND	CO2:Distinguish between the static and time-varying fields, establish the corresponding sets of
11	11-11		
		WAVES	CO3:Analyze the Wave Equations for good conductors, good dielectrics and evaluate the
			CO4:To analyze completely the rectangular waveguides, their mode characteristics, and
			CO1:Analyze and design of various continuous wave and angle modulation and demodulation
		ANALOG AND DIGITAL	CO2:Understand the effect of noise present in continuous wave and angle modulation techniques.
12	II-II	ANALOG AND DIGITAL COMMUNICATION	CO3:Attain the knowledge about AM, FM Transmitters and Receivers
		COMMUNICATION	CO4:Analyze and design the various Pulse Modulation Techniques
			CO5:Understand the concepts of Digital Modulation Techniques and Baseband transmission.
_			COLD in the skide of the Engage of Anglesia of
			CO1:Design the multistage amplifiers and understand the concepts of High Frequency Analysis of CO2:Utilize the Concepts of negative feedback to improve the stability of amplifiers and positive
13	II-II	ELECTRONIC CIRCUIT ANALYSIS	
			CO3:Design and realize different classes of Power Amplifiers and tuned amplifiers useable for
-			CO4:Design Multivibrators and sweep circuits for various applications
\dashv			CO1:A thorough understanding of operational amplifiers with linear integrated circuits
14	II-II	LINEAR IC APPLICATIONS	CO2:Attain the knowledge of functional diagrams and applications of IC 555 and IC 565
			CO3:Acquire the knowledge about the Data converters
			CO1: Design and implement various Analog modulation and demodulation Techniques and observe
			CO2: Design and implement various Pulse modulation and demodulation Techniques and observe
15	II-II	ANALOG AND DIGITAL	CO3: Apply different types of Sampling with various Sampling rates and duty Cycles
		COMMUNICATION LAB	CO4:Design and implement various Digital modulation and demodulation Techniques and observe
-			CO4:Design and implement various Digital modulation and demodulation Techniques and observe
			CO1:Design and implementation of various analog circuits using 741 Ics
			CO2:Design and implementation of various Multivibrators using 555 timer.
16	II-II	IC APPLICATION LAB	CO3:Design and implement various circuits using digital Ics
- 1			CO4:Design and implement ADC, DAC and voltage regulators.

			CO1:The ability to analyze and design single and multistage amplifiers at low, mid and high
			CO2: Designing and analyzing the transistor at high frequencies.
		ELECTRONIC CIRCUIT ANALYSIS	CO3:Determine the efficiencies of power amplifiers
17	II-II	LAB	CO4:Designing the Oscillators using transistors
		200 A 42 2 000 /	CO5:Determine Frequency response and design of tuned amplifiers.
			CO6:Able to Analyze all the circuits using simulation software and Hardware.
			1
			CO1:Students will have developed a better understanding of important issues related to gender in
			CO2:Students will be sensitized to basic dimensions of the biological, sociological, psychological and
18	II-II	GENDER SENSITIZATION LAB	CO3:Students will attain a finer grasp of how gender discrimination works in our society and how to
			CO4:Students will acquire insight into the gendered division of labour and its relation to politics and
			CO5:Men and women students and professionals will be better equipped to work and live together as
			CO1:Understands the internal architecture, organization and assembly language programming of
10	TTT T	MICROPROCESSORS AND MICRO	CO2:Understands the internal architecture, organization and assembly language programming of
19	III-I	CONTROLLERS	CO3:Understands the interfacing techniques to 8086 and 8051 based systems
			CO4:Understands the internal architecture of ARM processors and basic concepts of advanced ARM
			CO1:Know the Categories and functions of various Data communication Networks
		DAMA GOLGANIAN GAMIONG AND	CO2:Design and analyze various error detection techniques.
20	III-I	III-I DATA COMMUNICATIONS AND NETWORKS	CO3:Demonstrate the mechanism of routing the data in network layer
			CO4:Know the significance of various Flow control and Congestion control Mechanisms
			CO5:Know the Functioning of various Application layer Protocols.
			CO1:Understand the modeling of linear-time-invariant systems using transfer function and statespace
21	III-I	CONTRPOL SYSTEMS	CO2:Understand the concept of stability and its assessment for linear-time invariant systems.
			CO3:Design simple feedback controllers.
		BUSINESS ECONIOMICS AND	CO1:The students will understand the various Forms of Business and the impact of
22	III-I	FINANCIAL ANALYSIS	CO2: The Demand, Supply, Production, Cost, Market Structure, Pricing
		FINANCIAL ANALISIS	CO3:The Students can study the firm's financial position by analysing the Financial

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	Γ	T	
		t.	CO1:Able to visualize the organization of different blocks in a computer.
23	III-I	COMPUTER ORGANIZATION AND	CO2: Able to use micro-level operations to control different units in a computer.
23	111-1	OPERATING SYSTEMS	CO3:TAble to use Operating systems in a computer.
			COS. TAble to use Operating systems in a computer.
			CO1:Able to transmit and store reliable data and detect errors in data through coding.
24	III-I	ERROR CORRECTING CODES	CO2: Able to understand the designing of various codes like block codes, cyclic codes, convolution
			CO1:Measure electrical parameters with different meters and understand the basic definition of
25	III-I	ELECTRONIC MEASUREMENT AND	CO2: Use various types of signal generators, signal analyzers for generating and analyzing various
25	111-1	INSTRUMENTATION	CO3:Operate an Oscilloscope to measure various signals.
			CO4: Measure various physical parameters by appropriately selecting the transducers.
			CO1:The student will learn the internal organization of popular 8086/8051
26	III-I	MICROPROCESSORS AND MICRO CONTROLLERS LAB	CO2:The student will learn hardware and software interaction and integration.
	111 1		CO3:To apply the concepts in the design of microprocessor/microcontroller based systems in real
	III-I	DATA COMMUNICATIONS AND NETWORKS LAB	CO1:Understand the structure and organization of computer networks; including the division into
27			CO2:Understand the basic concepts of application layer protocol design; including client/server
			CO3:In depth understanding of transport layer concepts and protocol design; including connection
			CO1:To improve the students' fluency in English, through a well-developed vocabulary and enable
28	III-I	ADVANCED COMMUNICATION SKILLS	CO2:Further, they would be required to communicate their ideas relevantly and coherently in writing.
20	111-1	LAB	CO3:To prepare all the students for their placements
			CO1:It allows students how to prepare and protect the Inventions, start up ideas and rights of patents
			CO2:Students get the knowledge on Trademarks and Trade Secrets.
29	III-I	INTELLECTUAL PROPERTY RIGHTS	CO3This subject brings awareness to the students on the various types of Unfair Competition and the
			CO4:Student gets. Awareness of Cyber laws and Cyber Crime, to protect the data from Cyber crime.
			CO5:Summarize the Intellectual property rights globally and exposure to the emerging trends In IPR.
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		T	COLCh-materiae the enternos hased on frequency and forms the connector and establish the
		1	CO1:Characterize the antennas based on frequency, configure the geometry and establish the
30	III-II	ANTENSAS AND PROPAGATION	CO2:Specify the requirements for microwave measurements and arrange a setup to carry out the
			CO3:Classify the different wave propagation mechanisms, determine the characteristic features of
		ŀ	CO1:Understand the LTI system characteristics and Multirate signal processing.
31	Ш-П	DIGITAL SIGNAL PROCESSING	CO2:Understand the inter-relationship between DFT and various transforms
-	*** ***		CO3:Design a digital filter for a given specification.
			CO4:Understand the significance of various filter structures and effects of round off errors.
			CO1:Acquire qualitative knowledge about the fabrication process of integrated circuits using MOS
32	III-II	VLSI DESIGN	CO2:Draw the layout of any logic circuit which helps to understand and estimate parasitic effect of any
			CO3:Design building blocks of data path systems, memories and simple logic circuits using PLA,
\dashv			CO4:Understand different types of faults that can occur in a system and learn the concept of testing and
\dashv		OBJECT ORIENTED PROGRAMMIN G	CO1:Develop Applications for Range of Problems Using Object-Oriented Programming Techniques
33	III-II	THROUGH JAVA	CO2:Design Simple Graphical User Interface Applications.
\neg			
			CO1:Known the evolution of cellular and mobile communication system.
			CO2:The student will be able to understand Co-Channel and Non-Co-Channel interferences.
34	III-II	MOBILE COMMUNICATIONS AND NETWORKS	CO3:Understand impairments due to multipath fading channel and how to overcome the different
		NETWORKS	CO4:. Familiar with cell coverage for signal and traffic, diversity, techniques, frequency management,
			CO5: Know the difference between cellular and Adhoc Networks and design goals of MAC Layer
			CO1:To understand the selection procedure of Processors in the embedded domain
35	III-II	EMBEDDED SYSTEM DESIGN	CO2:Design Procedure for Embedded Firmware.
			CO3:To visualize the role of Real time Operating Systems in Embedded Systems.
			CO4:To evaluate the Correlation between task synchronization and latency issues
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		CO1:Apply discrete Fourier transforms for spectral analysis of discretesignals.	
	DIGITAL GLOVAL PROGRESSIVE LAR	CO2:Apply fast Fourier transform algorithms for reducing computational complexity of	
111 11		CO3:Compare IIR digital filter and FIR Digital filters using differentmethods.	
111-11	DIGITAL SIGNAL PROCESSING LAB	CO4:Analyze the Goertzel algorithm for the generation and detection of dual-tone multi-frequency	
		CO5:Apply multi-rate signal processing methods such as decimation and interpolation	
		CO6: Apply the digital signal processing algorithms for designing real time embedded	
		CO1:Design entry and simulation of combinational &sequential circuits and	
	0.5.4.5	CO2:Synthesis, p&r and post p&r simulation for combinational and	
111-11	e-CAD LAB	CO3:Implementation of the combinational &sequential circuits on FPGA	
		CO4:Write verilog and VHDL code for different circuits and understanding	
		CO1:Ability to understand the differences between Scripting languages and programming languages	
111-11	SCRIPTING LANGUAGES LAB	CO2:Able to gain some fluency programming in Ruby, Perl, TCL	
		CO1:Understanding the importance of ecological balance for sustainable development	
III-II	ENVIRONMENTAL SCIENCE	CO2:Understanding the impacts of developmental activities and mitigation measures	
		CO3:Understanding the environmental policies and regulations	
		CO1:Known power generation at microwave frequencies and derive the performance characteristics	
		CO2:realize the need for solid state microwave sources and understand the principles of solid state	
IV-I		CO3:distinguish between the different types of waveguide and ferrite components, and select proper	
	COMMUNICATIONS	CO4:understand the utility of S-parameters in microwave component design and learn the	
		CO5:Uunderstand the mechanism of light propagation through Optical Fibres.	
		CO1:Understand the similarity of Biological networks and Neural networks	
	ARTIFICIAL NEURAL NETWORKS (PE-	CO2:Perform the training of neural networks using various learning rules.	
IV-I	III)	CO3:Understanding the concepts of forward and backward propagations.	
		CO4:Understand and Construct the Hopfield models.	/
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		(Supplements on a second secon	or lecti
		III-II e-CAD LAB III-II SCRIPTING LANGUAGES LAB III-II ENVIRONMENTAL SCIENCE IV-I MICROWAVE AND OPTICAL COMMUNICATIONS IV-I ARTIFICIAL NEURAL NETWORKS (PE-	III-II DIGITAL SIGNAL PROCESSING LAB CO2:Apply fast Fourier transform algorithms for reducing computational complexity of CO3:Compare IIR digital filter and FIR Digital filters using differentmethods. CO4:Analyze the Goertzel algorithm for the generation and detection of dual-tone multi-frequency CO5:Apply multi-rate signal processing methods such as decimation and interpolation CO6: Apply the digital signal processing methods such as decimation and interpolation CO6:Apply the digital signal processing algorithms for designing real time embedded

			CO4:Identify and assess different types of threats, malware, spyware, viruses, vulnerabilities]
46	IV-I	CRYPTOGRAPHY (PE-IV)	CO3:Analyze key agreement algorithms to identify their weaknesses	1
		NETWORK SECURITY AND	CO2: Master the basics of SQL for retrieval and management of data	1
+			CO1:Describe network security fundamental concepts and principles	-
_			CO4: Familiarity with database storage structures and access techniques	
,	1 4 -1	(PE-IV)	CO3:Be acquainted with the basics of transaction processing and concurrency control.	
45	IV-I	DATABASE MANAGEMENT SYSTEMS	CO2: Master the basics of SQL for retrieval and management of data	
			CO1:Gain knowledge of fundamentals of DBMS, database design and normal forms]
7	\			1
		,	CO4: Know the imaging techniques including CT,PET, SPECT and MRI used in diagnosis of various	1
44	IV-I	IV)	CO3:Understand the working of various medical instruments and critical care equipment	1
		BIOMEDICAL INSTRUMENTATION (PE-	CO2: Identify the techniques to acquire record and primarily understand physiological activity of the	1
			CO1:Understand biosystems and medical systems from an engineering perspective	1
4			CO4:Understand the need of compression and evaluation of basic compression algorithms.	-
			CO3:Implement the various Morphological operations on an image	1
43	IV-I	DIGITAL IMAGE PROCESSING (PE-III)	CO2:Understand the enhancement, segmentation and restoration processes on an image.	
			CO1:Explore the fundamental relations between pixels and utility of 2-D transforms in image]
]
- 1			CO4:Create and run scripts using PERL/TCl/Python.	
12	IV-I	SCRIPTING LANGUAGES (PE-III)	CO3:Understand the concepts of Scripting languages	-
			CO2:Use Linux environment and write programs for automation	1

			CO1:Known power generation atmicrowave frequencies andderive the performance characteristics.
		MICROMANIE AND OPENSAL	CO2: realize the need for solid state microwave sources and understand the principles of solid state
48	IV-I	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	CO3:distinguish between the different types of waveguide andferrite components, andselect proper
		COMMUNICATIONS LAB	CO4: understand the utility of S-parameters in microwave component design and learn the
			CO5:Uunderstand the mechanism of light propagation through Optical Fibres.
			CO1:Understand basic concepts and frequency allocations for satellite communication, orbital
40	137.11	CATELLITE COMMUNICATIONS (DE VI	CO2: Envision the satellite sub systems and design satellite links for specified C/N.
49	IV-II	SATELLITE COMMUNICATIONS (PE-V)	CO3:Understand the various multiple access techniques for satellite communication systems and
			CO4: Known the concepts of LEO, GEO Stationary Satellite Systems and satellite navigation
			CO1:Derive the complete radar range equation
E0	IV-II	RADAR SYSTEMS(PE-V)	CO2:Understand the need and functioning of CW, FM-CW and MTI radars
50	1 V -11		CO3:Known various Tracking methods.
			CO4: Derive the matched filter response characteristics for radar receivers.
		II WIRELESS SENSOR NETWORKS(PE-V)	CO1:Analyze and compare various architectures of Wireless Sensor Networks
51	IV-II		CO2:Understand Design issues and challenges in wireless sensor networks
51	1V-11		CO3:Analyze and compare various data gathering and data dissemination methods.
			CO4: Design, Simulate and Compare the performance of various routing and MAC protocol
			CO1:Expected to understand SOC Architectural features
52	IV-II	SYSTEM ON CHIP ARCHITECTURE (PE-	CO2:To acquire the knowledge on processor selection criteria and limitations
52	1 V -11	V)	CO3:To acquires the knowledge of memory architectures on SOC.
			CO4: To understands the interconnection strategies and their customization on SOC
			CO1:To acquire the knowledge of fundamental concepts in fault and fault diagnosis
53	IV-II	THE THOU AND THE TABLE IN THE TABLE	CO2:Test pattern generation using LFSR and CA
55	1 V -11	TEST AND TESTABILITY (PE-VI)	CO3: Design for testability rules and techniques for combinational circuits
			CO4: Introducing scan architectures
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	IV-II	LOW POWER VLSI DESIGN (PE-VI)	CO1:Understand the need of Low power circuit design.	
1			CO2:Attain the knowledge of architectural approaches.	
54			CO3:Analyze and design Low-Voltage Low-Power combinational circuits.	
			CO4: Known the design of Low-Voltage Low-Power Memories	

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