



Rishi M.S. Institute of Engineering & Technology for Women

(Approved by A.I.C.T.E., & Affiliated to J.N.T.U.H.)

(In Memory of "BHARAT RATNA" Mrs. M.S. Subbulakshmi)

Near J.N.T.U.H Metro Station, Nizampet 'X' Road, Kukatpally, Hyderabad - 500 085.

E-mail: rishims2009@gmail.com, Phone: 040-23892878, Fax: 040-23892858.

ELECTRONICS AND COMMUNICATION AND ENGINEERING I & 11 SEM COURSE OUTCOMES FOR THE ACADEMIC YEAR: 2024-2025

S.NO.	YEAR/SEM	COURSE NAME	Course Outcomes
1	I/I	Elements of Electronics and Communication Engineering	CO1: Identify the different components used for electronics applications
			CO2: Measure different parameters using various measuring instruments
			CO3: Distinguish various signal used for analog and digital communications
2	I/II	Electronic Devices and Circuits	CO1: Acquire the knowledge of various electronic devices and their use on real life.
			CO2: Know the applications of various devices.
			CO3: Acquire the knowledge about the role of special purpose devices and their applications.
3	I/II	Electronic devices and Circuits Lab	CO1: Acquire the knowledge of various semiconductor devices and their use in real life.
			CO2: Design aspects of biasing and keep them in active region of the device for functional circuits
			CO3: Acquire the knowledge about the role of special purpose devices and their applications.
4	II/I	Analog Circuits	CO1: Learn the concepts of, load line analysis and biasing techniques
			CO2: Learn the concepts of high frequency analysis of transistors.
			CO3: To give understanding of various types of amplifier circuits



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			<p>CO4: Learn the concepts of small signal analysis of BJT and FET</p> <p>CO5: To familiarize the Concept of feedback in amplifiers so as to differentiate between negative and positive feedback.</p>
5	II/I	Digital Logic Design.	<p>CO1: Understand the numerical information in different forms and Boolean Algebra theorems.</p>
			<p>CO2: Understand Postulates of Boolean algebra and to minimize combinational functions.</p>
			<p>CO3: Design and Analyze combinational and sequential circuits.</p>
			<p>CO4: Know about the logic families and realization of logic gates.</p>
6	II/I	Network Analysis & Synthesis	<p>CO1: Gain the knowledge on basic RLC circuits behaviour</p>
			<p>CO2: Analyze the Steady state and transient analysis of RLC Circuits.</p>
			<p>CO3: Know the characteristics of two port network parameters</p>
			<p>CO4: Analyze the transmission line parameters and configurations</p>
	II/I	Numerical Methods and Complex Variables	<p>CO1: understand the Laplace transforms techniques for solving ode's</p>
			<p>CO2: find the root of a given equation.</p>



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7			CO3: calculate the value for the given data using interpolation
			CO4: analyze the numerical solutions for a given ode's
			CO5: analyze the complex function with reference to their analyticity, integration using cauchy's integral and residue theorems.
			CO6: understand taylor's and laurent's series expansions of complex function.
8	II/I	Signals and Systems	CO1: Defining the various signals and identifying the signal functions & relations
			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
	II/I	Analog Circuits Laboratory	CO1: Design amplifiers with required Q point and analyse amplifier characteristics
			CO2: Examine the effect multistage amplification on frequency response
			CO3: Investigate feedback concept in amplifiers and oscillator



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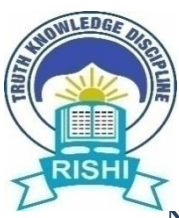
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9			<p>CO4: Analyze the characteristics of FET in Common Source configuration and calculate the gm and rd. Calculate Bandwidth of BJT/FET amplifier from its frequency response.</p>
			<p>CO5: Obtain the characteristics of UJT.</p>
10	II/I	Digital Logic Design Lab	<p>CO1: Implement Boolean Expressions using universal logic gates .</p> <p>CO2: Design and verify Combinational logic circuits using IC's .</p> <p>CO3:Design and verify Sequential logic circuits using IC's</p> <p>CO4:Implement Counters & Shift registers using FF's</p>
11	II/I	Constitution of India	<p>CO1: Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics.</p> <p>CO2: Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.</p> <p>CO3: Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of</p>



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			the proposal of direct elections through adult suffrage in the Indian Constitution
			CO4: Discuss the passage of the Hindu Code Bill of 1956.
12	II/I	Basic Simulation Lab	CO1: Synthesize a given waveform using standard test signals and sequences.
			CO2: Analyze the effect of various transformations applied on independent and dependent variables of a signal.
			CO3: Determine the symmetry (even/odd) of signals /sequences.
			CO4: Classify a system based on its characteristics and find its response for various excitations.
			CO5: Convert time domain signal into frequency domain using Fourier transform and plot its magnitude and phase spectrum.
13	II/II	Probability Theory and Stochastic Processes	CO1: Understand probabilities and able to solve using an appropriate sample space
			CO2: Compute various operations like expectations from probability density functions (pdfs) and probability distribution functions
			CO3: Perform Likelihood ratio tests from pdfs for statistical engineering Problems
			CO4: : Mean and covariance functions for simple random



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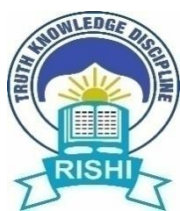
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			variables
			CO5: Understand Auto-correlation and cross correlation properties between two random variables
			CO6: Explain the concept of random process, differentiate between stochastic and ergodic processes
14	II/II	Electromagnetic Fields and Transmission Lines	CO7: Explain the concept of power spectral density and power density spectrum of a random process. 8. Apply the principles of a random process in system concepts.
			CO2: Distinguish between the static and time-varying fields, establish the corresponding sets of Maxwell's Equations and Boundary Conditions.
			CO3: Analyze the Wave Equations for good conductors, good dielectrics and evaluate the UPW Characteristics for several practical media of interest.
			CO4: To analyze completely the rectangular waveguides, their mode characteristics, and design waveguides for solving practical problems
15	II/II	Analog and Digital Communications	CO1:: Analyze and design of various continuous wave and angle modulation and demodulation techniques
			CO2: Understand the effect of noise present in continuous wave and angle modulation techniques.
			CO3: Attain the knowledge about AM , FM Transmitters and Receivers
			CO4: Analyze and design the various Pulse Modulation Techniques.
			CO5: Understand the concepts of Digital Modulation Techniques and Baseband transmission
16	II/II	Linear IC Applications	CO1: Understand the internal operation of Op-Amp and its specifications.



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			<p>CO2: Analyze and design linear applications like adder, subtractor, instrumentation amplifier and etc. using Op-Amp.</p> <p>CO3: Analyze and design nonlinear applications like multiplier, comparator and etc, using Op-Amp.</p> <p>CO4: Attain the knowledge of functional diagrams and applications of IC 555 and IC565 and applications</p> <p>CO5: Acquire the knowledge about the Data converters.</p>
17	II/II	Electronic Circuit Analysis	<p>CO1: Analyze single stage amplifiers at Mid-band, Low frequency and High frequency regions</p> <p>CO2: Analyze multistage amplifiers at Mid-band, Low frequency and High frequency regions.</p> <p>CO3: Design and analyze different types of feedback amplifiers and oscillators using transistors</p> <p>CO4: Analyze different types of power amplifiers and compare them in terms of efficiency.</p> <p>CO5: Analyze tuned amplifiers and the effects of cascading tuned amplifiers</p>
18	II/II	Analog and Digital	<p>CO1: Analyze the spectrum of various analog modulation techniques</p> <p>CO2: Design a multiplexing system using FDM</p>



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		Communications lab	<p>CO3:Examine various pulse modulation techniques</p> <p>CO4: Analyze different digital modulation and demodulation</p>
19	II/II.	Linear and Digital IC Applications Lab	<p>CO1:Design analog circuits for practical applications using Op Amp IC-741</p> <p>CO2: Design waveform generators and PLL circuits using ICs</p> <p>CO3: Design multi vibrators using IC555 and Schmitt trigger using IC741</p> <p>CO4: Analyze the practical applications of Voltage Regulator using various ICs.</p>
20	II/II	Electronic Circuits Analysis Lab	<p>CO1:Design, simulate and verify basic amplifier circuits</p> <p>CO2:Design, simulate and verify feedback amplifiers and oscillators.</p> <p>CO3:Design, simulate and verify power amplifier circuits</p> <p>CO4:Design, simulate and verify Multivibrators and Sweep Circuits.</p>
	II/II	Gender Sensitization Lab	<p>CO1:Develop a better understanding of important issues related to gender in contemporary India.</p> <p>CO2:Analyze basic dimensions of the biological, sociological, psychological and legal aspects of gender.</p> <p>CO3: Develop a sense of appreciation of women in all walks of life and will be equipped to work and live</p>



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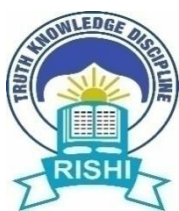
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21			together as equals.
			CO4: Examine the new laws for women protection & relief, and empower students to understand and respond to gender violence
22	III/I	Microcontrollers	CO1: Understands the internal architecture, organization and assembly language programming of 8086 processors.
			CO2: Understands the internal architecture, organization and assembly language programming of 8051/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 processors.
23	III/I	IoT Architectures and Protocols	CO1: Explore the Evolution of IoT, its Growth and Applications.
			CO2: Know the components of IoT and Compare the various architectures of IoT.
			CO3: Acquire the knowledge on data management of IoT.
			CO4: Establish the knowledge on various IoT protocols like Data link, Network, Transport, Session, Service layers.
24	III/I	Control Systems	CO1: Explain different ways of system representations such as Transfer function
			CO2: Apply various time domain and frequency domain techniques to assess the system performance
			CO3: Apply various control strategies to different applications like power systems, electrical drives etc



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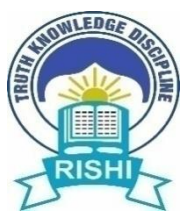
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			<p>CO4: Design various controllers and compensators to improve system performance</p> <p>CO5: Construct the State models for continuous & discrete time systems and comment on controllability and Observability of the system</p> <p>CO6: Compute the transfer function of system by different techniques.</p>
25	III/I	<p>Business Economics & Financial Analysis</p>	<p>CO1: Understand the various forms of business</p> <p>CO2: contrast of demand and supply</p> <p>CO3: change production, cost market structures and pricing</p> <p>CO4: study the firm's financial position</p> <p>CO5: Relate to analyze the financial statements of a company</p>
26	III/I	<p>Electronic Measurements and Instrumentation</p>	<p>CO1: Identify the various electronic instruments based on their specifications for carrying out a particular task of measurement.</p> <p>CO2: Measure various physical parameters by appropriately selecting the transducers.</p> <p>CO3: Use various types of signal generators, signal analyzers for generating and analyzing Various real-time signals.</p> <p>CO4: Explain functioning, specification and applications of signal generators, signal analyzers for generating and analyzing various real-time signals.</p>
27	III/I	<p>Microcontrollers</p>	<p>CO1: Write programs in assembly language using the</p>



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		Lab	instruction set of 8086 through MASM software as well as using 8086 Kit.
			CO2: Interface different I/O devices with 8086 and establish communication between them.
			CO3: Write programs in assembly language using instruction set of 8051 and execute the same.
			CO4: Verify the operations of the timer, counter and serial port (UART) of 8051.
28	III/I	IoT Architectures and Protocols lab	CO1: Utilize the different sensors like room temperature, DHT, Humidity etc.,
			CO2: Interface the sensors and processor for transmission of data.
			CO3: Capture the images and process it on Arduino/NodeMCU/Raspberry Pi.
			CO4: know the utilization of various protocols like I2c, UART communication etc.
29	III/I	Advanced Communication Skills Lab	CO1: Build sound vocabulary and use functional English effectively
			CO2: Analyze the given text and respond appropriately and develop efficacious writing skills
			CO3: Develop effective speaking skills and maximize job prospects



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			CO4: Plan and make different forms of presentation using various techniques.
30	III/I	Intellectual Property Rights	CO1: Distinguish and Explain various forms of IPRs.
			CO2: Identify criteria to fit one's own intellectual work in particular form of IPRs.
			CO3: Apply statutory provisions to protect particular form of IPRs.
			CO4: Appraise new developments in IPR laws at national and international level
31	III/II	Antennas and Wave Propagation	CO1: Explain radiation mechanism and various parameters of an antenna.
			CO2: Design Loop, Helical, Horn and Yagi–Uda antennas.
			CO3: Explain the working principle of Microstrip, Reflector and Lens antennas.
			CO4: Design different types of arrays and explain the test procedures involved in Antenna Measurements.
			CO5: Explain the mechanisms of wave propagation and atmospheric effects on radio wave propagation
32	III/II	Digital Signal Processing	CO1: Understand the LTI system characteristics and Multirate 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
33	III/II	CMOS VLSI	CO1: Explain MOS technology of NMOS, PMOS, CMOS



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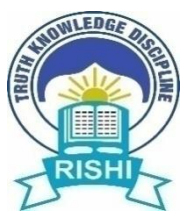
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		Design	and BiCMOS.
			CO2: Design stick diagrams and draw the layout of a logic circuit
			CO3: Analyze the architectural issues involved in subsystem design.
			CO4: Design building blocks of data path subsystems and analyze simple memories using MOS transistors.
			CO5: Apply concepts of VLSI design methodology and explain the test principles
34	III/II	Embedded System Design	CO1: To understand the selection procedure of Processors in the embedded domain
			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.
35	III/II	Database management System	CO1: Gain knowledge of fundamentals of DBMS, database design and normal forms
			CO2: Master the basics of SQL for retrieval and management of data.
			CO3: Be acquainted with the basics of transaction processing and concurrency control.



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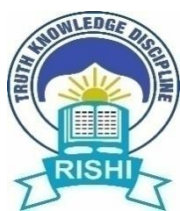
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			CO4: Familiarity with database storage structures and access techniques
36	III/II	Digital Signal Processing lab	CO1: Generate sinusoidal and noise waveforms using different approaches
			CO2: Analyze Impulse and frequency response of various digital filters.
			CO3: Verify different algorithms of DSP through simulation
			CO4: Implement various DSP algorithms in hardware.
37	III/II	CMOS VLSI Design Lab	CO1: Verify the functionality of digital circuits using Xilinx ISIM simulator
			CO2: Implement digital circuits on various FPGA boards using Xilinx tools
			CO3: Design layout for digital circuits and perform physical verification
			CO4: Analyze static timing, IR drop and crosstalk in digital circuit layouts
38	III/II	Advanced Communication Skills Lab	CO1: Build sound vocabulary and use functional English effectively
			CO2: Analyze the given text and respond appropriately and develop efficacious writing skills
			CO3: Develop effective speaking skills and maximize job prospects



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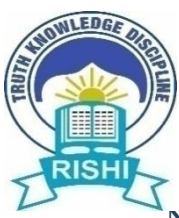
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			CO4: Plan and make different forms of presentation using various techniques.
39	III/II	Environmental Science	CO1: Understand /evaluate / develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development
40	IV/I	Microwave and Optical Communications	CO1: Analyze various modes of microwave transmission lines.
			CO2: Examine various waveguide components and their applications.
			CO3: Analyze the characteristics of O-type and M-type microwave tubes
			CO4: Estimate S-parameters of multiport junction devices
			CO5: Measure various parameters using microwave bench
41	IV/I	Professional Practice, Law & Ethics	CO1: understand the importance of professional practice and Law Ethics
			CO2: Define the law of contract and its key elements of valid contract



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			CO3: judge arbitration and conciliation and alternative Dispute resolution
			CO4: role play the labor and construction related laws
			CO5: Explain the students rights and Responsibility as an Employee
42	IV/I	Network Security and Cryptography	CO1: Describe network security fundamental concepts and principles
			CO2: Encrypt and decrypt messages using block ciphers and network security technology and protocols
			CO3: Analyze key agreement algorithms to identify their weaknesses
			CO4: Identify and assess different types of threats, malware, spyware, viruses, and vulnerability.
43	IV/I	Radar Systems	CO1: Derive the complete radar range equation.
			CO2: Familiarize the functioning of CW, FM-CW and MTI radars
			CO3: Known various Tracking methods.
			CO4: Derive the matched filter response characteristics for



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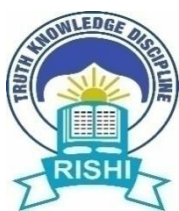
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			radar receivers.
44	IV/I	Operating Systems	CO1: Will be able to control access to a computer and the files that may be shared
			CO2: Demonstrate the knowledge of the components of computers and their respective roles in computing.
			CO3: Ability to recognize and resolve user problems with standard operating environments.
			CO4: Gain practical knowledge of how programming languages, operating systems, and architectures interact and how to use each effectively.
45	IV/I	Microwave and Optical Communications lab	CO1: Analyze the characteristics of microwave sources and devices.
			CO2: Measure different parameters of various microwave devices.
			CO3: Measure the Scattering Parameters of various Tee Junctions
46	IV/I	Project Stage - I	CO1: Identify problem, conduct relevant literature survey and formalize it.
			CO2: Analyze & design efficient, cost-effective and eco-friendly solutions using relevant tools (if necessary) and



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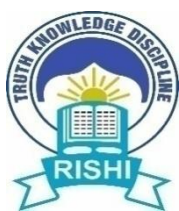
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			processes
			CO3: Implement the design and demonstrate the functionality of developed model
			CO4: Evaluate the results to derive the conclusion and provide scope for future enhancement.
			CO2: Select a search algorithm for a problem and estimate its time and space complexities.
			CO3: Possess the skill for representing knowledge using the appropriate technique for a given problem
			CO4: Possess the ability to apply AI techniques to solve problems of game playing, and machine learning.
47	IV/II	Artificial Intelligence	CO1: Understand the basics of the theory and about intelligent agents.
			CO2: Capable of using heuristic searches, aware of knowledge based systems and expert systems.
			CO3: Apply AI techniques to real-world problems to develop intelligent systems.
			CO4: Select appropriately from a range of techniques when implementing intelligent systems



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(In Memory of "BHARAT RATNA" Mrs. M.S. Subbulakshmi)

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48	IV/11	System on Chip Architecture.	CO1: Remember SOC Architectural features.
			CO2: Understand to acquire the knowledge on processor selection criteria and limitations
			CO3: Apply to acquire the knowledge on processor selection limitations
			CO4: Analyze to acquires the knowledge of memory architectures on SOC.
			CO5: Evaluate to the interconnection strategies on SOC.
			CO6: Create to the interconnection strategies customization on SOC.
49	IV/11	Introduction to Computer Networks	CO1: Gain the knowledge of the basic computer network technology.
			CO2: Understand sub netting and routing mechanisms.
			CO3: Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference model.
			CO4: Familiarity with the essential application protocols of computer networks
50	IV/11	Project Stage – II and Seminar	CO1: Identify problem, conduct relevant literature survey and formalize it.
			CO2: Analyze & design efficient, cost-effective and eco-friendly solutions using relevant tools (if necessary) and processes



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			CO3: Implement the design and demonstrate the functionality of developed model
			CO4: Evaluate the results to derive the conclusion and provide scope for future enhancement.
			CO5: Identify emerging topic specific to the programmer
			CO6: Extract the information relevant to the chosen topic.