

Department of Electronics Course Outcomes

Sl.No.	Semester	Course Code	Course Title		Course Outcomes(COs)
			Network Analysis and Analog Electronics	CO1	Analyze the circuits using Kirchhoff's laws and network simplification methods.
				CO2	Apply the knowledge of basic circuit law and simplify the network using reduction techniques using additional OE resources available in the internet using modern ICT tools.
				CO3	Explain the functioning of various solid-state devices such as diodes, bi-polar junction transistors, and field-effect transistors.
				CO4	Understand the principle and operation of rectifiers and oscillators and understand their types.
			Practical-I	CO1	Understand the role of basic electronic components (R, C, L, diodes, transistors), digital multimeter, function generator, regulated power Supply and Oscilloscope.
				CO2	Apply network theorems to find the various parameters for a given circuit.
				CO3	Understand the voltage-current characteristics of different devices.
			Linear And Digital Integrated Circuits	CO1	Understand circuits employing integrated-circuit operational amplifiers and their applications.
				CO2	Understand the function of IC-555 and its applications.
				CO3	Explain fundamental concepts of the decimal number system and their conversions from one number system to another.
				CO4	Explain the basic logic operations of NOT, AND, OR, NAND, NOR, and XOR.
				CO5	Implement the methods of systematic reduction of Boolean algebra expressions including Karnaugh maps.
			Practical-II	CO1	Apply the knowledge of op-amp to construct and find out different parameters.
				CO2	Build application circuits w.r.t op-amp and understand their output waveforms.
				CO3	Understand the concept of IC-555 and build an a stable multivibrator.
				CO4	Apply the logic functions to implement various combinational and sequential digital circuits.
			Communication Electronics	CO1	Understand the function of various stages of AM, FM transmitter.
				CO2	Apply the theoretical knowledge to study the characteristics of AM & FM receivers.
				CO3	Outline modulation & demodulation techniques of AM and FM.
				CO4	Describe the pulse modulation nature in digital communications.
				CO5	Discuss the concepts of cellular technologies using additional OE resources available in the internet using modern ICT tools.
			Practical-III	CO1	Apply the basics of AM & FM to construct modulator and demodulator.
				CO2	Use the knowledge of pulse modulation and understand generation and detection.
				CO3	Remember digital communication techniques to understand the generation and detection.
			Microprocessor and Microcontroller	CO1	Understand 8085 architecture and programming in assembly language.
				CO2	Realize the architecture and operation of ARM processor.
				CO3	Remember the architecture and instruction set of 8051.
				CO4	Write assembly language programs of 8051.

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				CO5	Apply the concepts in understanding interfacing applications using additional OE resources available in the internet using modern ICT tools.
			Practical-IV	CO1	Apply the knowledge of ARM processor to execute basic assembly language programs
				CO2	Understand the instruction set of 8051 to execute assembly language programs.
				CO3	Use the knowledge of interfacing devices and rotate stepper motor in clockwise direction.
			Microprocessors	CO1	Analyze the internal operation of 8085 and 8086 microprocessor.
				CO2	Understand the instruction sets of 8085 & 8086 microprocessors.
				CO3	Implement simple programs using assembly language.
				CO4	Discuss the concepts, principles, procedures in microprocessors and its applications using additional OE resources available in the internet using modern ICT tools.
			Practical-V	CO1	Knowledgeable with the basics of MASM software.
				CO2	Understand the instruction set of 8086 microprocessor to execute various assembly language programs.
			Electronic Communications	CO1	
				CO2	
				CO3	
				CO4	
				CO5	