Sree Chitra Thirunal College of Engineering

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Consolidated Course Outcomes Report

Batch	Slno	Subject	CO	Topic	Bloom's taxonomy level
EC 2K20 A	1	ANALOG CIRCUITS	CO1	Design analog signal processing circuits using diodes and first order RC circuit	Understanding(U)
			CO2	Analyse basic amplifiers using BJT and MOSFET	Analyzing(A)
			CO3	Apply the principle of oscillator and regulated power supply circuits	Applying(P)
	2	SIGNALS AND SYSTEMS	CO1	Apply properties of signals and systems to classify them.	
			CO2	Represent signals with the help of series and transforms	
			CO3	Describe orthogonality of signals and convolution integral	
			CO4	Apply transfer function to compute LTI response to input signals	
			CO5	Apply sampling theorem to discretize continuous time signals	
	3	COMPUTER ARCHITECTURE AND MICROCONTROLLERS	CO1	Explain the functional units, I/O and memory management w.r.t a typical computer architecture.	Understanding(U)
			CO2	Distinguish between microprocessor and microcontroller.	Understanding(U)
			CO3	Develop simple programs using assembly language programming.	Applying(P)
			CO4	Interface 8051 microcontroller with peripheral devices using ALP/Embedded C	Applying(P)
			CO5	Familiarize system software and Advanced RISC Machine Architecture.	Understanding(U)
	4	ANALOG CIRCUITS AND SIMULATION LAB	CO1	Design and demonstrate the functioning of basic analog circuits using discrete components.	Understanding(U)
			CO2	Design and simulate the functioning of basic analog circuits using simulation tools.	Understanding(U)
			CO3	Function effectively as an individual and in a team to accomplish the given task.	Understanding(U)
	5	MICROCONTROLLERS LAB	CO1	Write an Assembly language program/Embedded C program for performing data manipulation.	Applying(P)
			CO2	Develop ALP/Embedded C Programs to interface microcontroller with peripherals	Applying(P)
			CO3	Perform programming/interfacing experiments with IDE for modern microcontrollers.	Applying(P)
	6	DESIGN AND ENGINEERING	CO1	Explain the different concepts and principles involved in design engineering.	Understanding(U)
			CO2	Apply design thinking while learning and practicing engineering.	Applying(P)
			CO3	Build innovative, reliable, sustainable and economically viable designs incorporating knowledge in engineering.	Applying(P)
	7	CONSTITUTION OF INDIA	CO1	Explain the background of the present constitution of India and features.	Remembering(R)
			CO2	Utilize the fundamental rights and duties	Understanding(U)
			CO3	Understand the working of the union executive, parliament and judiciary	Understanding(U)
			CO4	Understand the working of the state executive, legislature and judiciary	Understanding(U)
			CO5	Utilize the special provisions and statutory institutions	Understanding(U)
			CO6	Show national and patriotic spirit as responsible citizens of the country	Understanding(U)
			CO1	Explain discrete and continuous random variables and different distributions.	Understanding(U)

	8	**PROBABLITY RANDOM PROCESS AND NUMERICAL METHODS**	**CO2**	Apply the density function of the distribution to find the probability of the random variable,	Applying(P)
			CO3	Apply random processes in auto correlation, power spectrum and poisson process model as appropriate.	Applying(P)
			CO4	Evaluate definite integrals and perform interpolation on given numerical data by standard numerical techniques.	Applying(P)
			CO5	Solve the algebraic equation, linear system of equation and ordinary differential equation using numerical methods.	Applying(P)