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	LINEAR INTEGRATED CIRCUITS	CO1	Understand Op Amp fundamentals and differential amplifier configurations	Understanding(U)
			CO2	Design operational amplifier circuits for various applications	Applying(P)
			CO3	Design Oscillators and active filters using opamps	Applying(P)
			CO4	Explain the working and applications of timer, VCO and PLL ICs	Understanding(U)
			CO5	Outline the working of Voltage regulator IC's and Data converters	Understanding(U)
	2	DIGITAL SIGNAL PROCESSING	CO1	Analyze signal in transform domain and develop a concept of linear filtering	Analyzing(A)
			CO2	Evaluate DFT and IDFT using FFT algorithms	Evaluate(E)
			CO3	Design digital FIR and IIR filters and draw the different filter structures	Create(C)
			CO4	Understand the concept of multirate signal processing and finite word length effects	Understanding(U)
			CO5	Understand the concept of digital signal processors	Understanding(U)
	3	ANALOG AND DIGITAL COMMUNICATION	CO1	Explain the existent analog communication systems.	Understanding(U)
			CO2	Apply the concepts of random processes to LTI systems.	Applying(P)
			CO3	Apply waveform coding techniques in digital transmission.	Applying(P)
			CO4	Apply GS procedure to develop digital receivers	Applying(P)
			CO5	Apply equalizer design to counteract ISI.	Applying(P)
			CO6	Apply digital modulation techniques in signal transmission.	Applying(P)
	4	CONTROL SYSTEMS	CO1	Analyze electromechanical systems by mathematical modeling and derive their transfer function	Analyzing(A)
			CO2	Determine Transient and steady state behaviour of systems using standard testsignals	Applying(P)
			CO3	Determine absolute stability and relative stability of a system	Applying(P)
			CO4	Apply frequency domain techniques to assess the system performance and to design a control system with suitable compensation techniques	Applying(P)
			CO5	Analyze system controllability and observability using state space representation	Analyzing(A)
	5	MANAGEMENT FOR ENGINEERS	CO1	Explain the characteristics of management in the contemporary context	Understanding(U)
			CO2	Describe the functions of management	Understanding(U)
			CO3	Demonstrate ability in decision making process and productivity analysis	Understanding(U)
			CO4	Illustrate project management technique and develop a project schedule	Applying(P)
			CO5	Summarize the functional areas of management	Understanding(U)
			CO6	Comprehend the concept of entrepreneurship and create business plans	Understanding(U)
	6	ANALOG INTEGRATED CIRCUITS AND SIMULATION LAB	CO1	Design and implement application circuits using Analog ICs.	Understanding(U)
			CO2	Design and simulate the application circuits of Analog integrated circuits using simulation tools	Understanding(U)
			CO3	Function effectively as an individual and in a team to accomplish the given task	Understanding(U)

	7	**DIGITAL SIGNAL PROCESSING LAB**	**CO1**	Develop and validate different signal processing systems using Matlab/Scilab	Analyzing(A)
			CO2	Develop and validate different signal processing systems using Python	Remembering(R),Analyzing(A)
			CO3	Devise various signal processing applications using DSP kit.	Create(C)