Shanmuganathan Engineering College

(Approved by AICTE, Affiliated byAnna University Chennai)

Department of
Electronics and Communication Engineering

Regulation-2021

Course Outcomes

Semester - 3	
Course code and Name	**Course Outcomes(CO)** **After completion of the course, the students will be able to**
EC3351 – CONTROL SYSTEMS	CO1: Understand the basic concepts of control system and its representation CO2: Analyse the time response of the control system CO3: Analyse the frequency response of control system by multiple methods CO4: Analyse the stability of the control system CO5: Understand the concepts of control system using state variable.
EC3352 – DIGITAL SYSTEMS DESIGN	CO1: Use Boolean algebra and simplification procedures relevant to digital logic. CO2: Design various combinational digital circuits using logic gates. CO3: Analyze and design synchronous sequential circuits. CO4: Analyze and design asynchronous sequential circuits. CO5: Build logic gates and use programmable devices
EC3353 –ELECTRONIC DEVICES AND CIRCUITS	CO1: Know and develop a strong basis for building linear and digital integrated circuits CO2: Gain knowledge on the frequency response of small signal amplifiers CO3:Understand clearly of Bipolar Junction Transistor and Metal Oxide Semiconductor Field Effect transistor CO4:Understand the Feedback amplifiers and Oscillator Circuits CO5:Appreciate the importance of power amplifiers and supply circuits
EC3354 –SIGNALS AND SYSTEMS	CO1: Illustrate the concepts of elementary signals and classification of continuous time and discrete time signals and systems. CO2: Explain frequency domain representation of continuous time signal using Fourier series, Fourier transform and Laplace transform. CO3: Analyze continuous time LTI systems using Fourier transform, solve differential equation and Evaluate the impulse response and convolution integrals. CO4: Understand the concept of baseband sampling and illustrate the

	frequency domain representation. CO5: Analyze discrete time LTI systems using DTFT and Z transform solve difference equation and evaluate the impulse response and convolution sum.
CS3353-DATA STRUCTURES	CO1: Make use of Abstract data types and their lists. CO2: Illustrate linear data structure operations using Stacks and Queues. CO3: Demonstrate the operations for solving a given problem using non–Linear data structure. CO4: Develop an graph algorithms using tree and graph structures CO5: Explain the concepts of hashing and sorting algorithms.