Course Number and Name
BEI601 - CONTROL SYSTEMS

Course Objectives

- To study control problem, control system dynamics and feedback principles.
- To study time response of first and second order systems and basic state variable analysis and to do simple problems.
- To study the concept of stability and criteria for stability and to do simple problems.
- To study the frequency response through polar plots and Bode plots and Nyquist stability criteria and to do simple problems.

Prerequisites	Co-requisites
BEC301-Signals & Systems , BEI406-Electronic Instrumentation	Nil

Course Outcomes (COs)
CO1: Outline the development of mathematical models to represent systems and their representation by transfer functions
CO2: Discuss the transient and steady state response of control systems
CO3: Practice frequency domain plots (Bode and Polar)
CO4: Analyze performance of control systems
CO5: Design compensation networks
CO6: Design the different types of compensators

Student Outcomes (SOs) from Criterion 3 covered by this Course

COs/SOs	a	b	c	d	e	f	g	h	i	j	k	
CO1	H					M	L		M	M		
CO2	M	L	H	M	M				L			
CO3	M			H								
CO4	M		M		H		M			H		
CO5		L							M			
CO6					H							