

Lesson Plan

Subject Control system (Code) TH3 Name of faculty Aiswarya Kumar Mishra
 Semester 6th Class allotted 5 class per week Branch: Electrical Engineering

Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson		
Week	Date/Period			
1	14/02/23	classification of control system open loop, closed loop system and its comparison.		white Board &
	15/02/23	Effects of feedback		Marker
	17/02/23	standard test signals		
2	20/02/23	servo mechanism.		
	21/02/23	Transfer function & Impulse response.		white board & Marker
	25/02/23	properties, advantage & dis- advantages of transfer function.		white Board &
3	27/02/23	poles & zeros of a transfer function.		Marker
	04/03/23	Simple problems of transfer func ⁿ of a network.		white Board & Marker
	06/03/23	Mathematical modeling of Electrical system. (RLC Analogous system)		white Board & Marker
4	11/03/23	components of control system		white Board &
	13/03/23	gyroscope, synchros, Tachometer D.C servomotor, AC servomotor.		white Board & Marker
	18/03/23	Definition, Basic elements of Block diagram.		white Board &
5	20/03/23	Canonical form of closed loop system.		white Board & Marker
	25/03/23	Rules for Block diagram reduction.		white Board &
	27/03/23	procedure for of reduction of Block diagram.		white Board & Marker
6	31/03/23	Simple problem for equivalent transfer function.		white Board & Marker

(Signature)

Signature of HOD

(Signature)
Signature of faculty

Week	Date Period	Theory Practical - Topics/Lesson	Teaching Aid
8	03/04/23	Signal flow graph & properties. construction of	White Board
		signal flow graph and block diagrams.	Marker
9	08/04/23	Mason's gain formulae	White Board
	10/04/23	simple problems for signal flow graph for network.	Marker
10	21/04/23	Time response of control system, standard test signals	White Board
	27/04/23	step signal Ramp signal parabolic signal	Marker
		Impulse signal	White Board
11	29/04/23	Time response of 1st order system. with unit step response	White Board
	07/05/23	unit impulse response. Time response of 2nd order system.	Marker
12	29/04/23	Analysis of stability by root locus technique.	White Board
	02/05/23	Frequency response Analysis. Nyquist plot (principle of argument stability criterion, inverse polar plot Construct M & N circle, Nichols chart.	Marker
13	06/05/23		
	08/05/23		
14		Revision	
	13/05/23		
15	15/05/23		
	to	Revision	
15	20/05/23		
	22/05/23		
	to	Revision	
	23/05/23		

[Signature]

Signature of HOD

[Signature]

Signature of faculty