

## Lesson Plan

Subject Control System (code) TH-3 Name of faculty Bikram Keshari Panda  
 Semester: 6th Class allotted 05/week Branch Electrical

Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days per week	Theory	Practical - Topics/Lesson	
Week	Date/Period			
1	10.03.22	open loop & close loop system.		White board & Marker
	11.03.22	Effect of feedback		
	11.03.22	standard test signal servomechanism.		
2	14.03.22	Transfer function. Advantages & Disadvantages		"
	15.03.22	pole, zero concept		
	17.03.22	Mathematical modeling		
3	21.03.22	Mathematical modeling		"
	22.03.22	Mathematical modeling		
	24.03.22	Gyroscope, synchro.		
	25.03.22	Tachometer, DC servomotor		
	25.03.22	AC servomotor		
4	28.03.22	Introduction to block dia.		"
	29.03.22	Rules for block diagram Reduction.		
	31.03.22	procedure for block diagram Reduction		
5	04.04.22	problem on block dia. Redu.		"
	05.04.22	problem on block dia. Redu.		
	07.04.22	Introduction to SFG.		
	08.04.22	Construction of SFG.		
	08.04.22	Mason's Gain Formula		
6	11.04.22	problem on SFG		"
	12.04.22	problem on SFG,		
7	18.04.22	standard test signal.		"
	19.04.22	Time response of 1st order sys		
	21.04.22	Time response of 2nd order sys.		
	22.04.22	problem on time response		
	22.04.22	problem on time response.		

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Week	Date/Period	Theory Practical Topics/Lesson	Teaching Aid
8	25.04.22	TYPE-0 SYSTEM	white board & marker
	26.04.22	TYPE-1, TYPE-2 SYSTEM.	
	28.04.22	P, PI controller.	
	29.04.22	PD & PID controller.	
	29.04.22	problems on type of system	
9	02.05.22	Root Locus Concept	
	05.05.22	Construction of root loci	
	06.05.22	problems on Root Locus	
	06.05.22	problems on Root Locus.	
10	09.05.22	Rules for construction RL.	
	10.05.22	problems on Root Locus.	"
	12.05.22	problems on Root Locus	
	13.05.22	Effect of poles & zero on RL.	
	13.05.22	Correlation bet <sup>n</sup> T.R & F.R	
11	17.05.22	Root Locus	
	19.05.22	problems on Root Locus.	"
	20.05.22	problems on Root Locus.	
	20.05.22	Bode plot.	
12	23.05.22	problems on Bode plot	
	24.05.22	problems on Bode plot	
	26.05.22	problems on Bode plot	"
	27.05.22	CLASS TEST	
	27.05.22	REVISION.	
13	31.05.22	Niquist plot construction.	
	02.06.22	problems on Niquist plot.	
	03.06.22	Effect of addition of poles & zero on <sup>Limit</sup> stability.	"
14	06.06.22	constant M & N circle.	
	07.06.22	Nichols chart	
	09.06.22	REVISION	
	10.06.22	PREVIOUS YEAR QA DISCUSSION	"
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