

	3/3/16 5/3/16	MID-II			
5	8/3/16	Introduction, frequency domain specification	<u>IV</u>	CR	
6	8/3/16	Determination of frequency domain specifications	<u>IV</u>	CR	
3	9/3/16	" "	<u>IV</u>	CR	
3	14/3/16	Determination of $T_H$ from bode diagram	<u>IV</u>	CR	
5	15/3/16	phase margin and gain margin.	<u>IV</u>	CR	
6	15/3/16	Stability Analysis from bode plot	<u>IV</u>	CR	
3	16/3/16	polar plots and Stability Analysis	<u>IV</u>	CR	
6	21/3/16	Nyquist plot, Stability analysis	<u>IV</u>	CR	
5	22/3/16	Introduction and preliminary design considerations	<u>V</u>	CR	
6	22/3/16	lag, lead, lag- lead compensation	<u>V</u>	CR	
	28/3/16	" "	<u>V</u>	CR	
	29/3/16	Concepts of state, state variable	<u>V</u>	CR	
	30/3/16	State model, derivation of state model.	<u>V</u>	CR	
	4/4/16	Diagonalization	<u>V</u>	CR	
	5/4/16	Solving the time- invariant state equations	<u>V</u>	CR	
	6/4/16	State transitions	<u>V</u>		

	(Tentative)	Topic	Unit No.	Teaching Methodology	Remarks
1	1/2/16	Standard test signal	<u>II</u>	CR	
5	2/2/16	Time response of second order system	<u>II</u>	CR	
6	2/2/16	Characteristic equation of feed back systems	<u>II</u>	CR	
3	3/2/16	Transient response of 2nd order system.	<u>II</u>	CR	
3	3/2/16	" "	<u>II</u>	CR	
5	7/2/16	Time domain - Specifications	<u>II</u>	CR	
6	9/2/16	Steady state response	<u>II</u>	CR	
3	10/2/16	Error constant	<u>II</u>	CR	
5	15/2/16	Effects of PD and PI controller	<u>II</u>	CR	
6	15/2/16	Effect of PID Controller	<u>II</u>	CR	
3	16/2/16	Concept of Stability	<u>III</u>	CR	
1	17/2/16	Routh's stability Criterion	<u>III</u>	CR	
5	22/2/16	" "	<u>III</u>	CR	
6	23/2/16	Conditional Stability	<u>III</u>	CR	
3	23/2/16	Root locus concept	<u>III</u>	CR	
1	24/2/16	Construction of root loci	<u>III</u>	CR	
5	29/2/16	" "	<u>III</u>	CR	

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Upon F
5	21-12-15	open loop and closed loop systems	I	CR		
6	22-12-15	Explanation of open & closed loop systems	I	CR		
3	22-12-15	classification of control systems	I	CR		
1	23-12-15	feed back characteristics	I	CR		
5	28/12/15	Effect of feed back characteristics	I	CR		
6	29/12/15	Effect of feed back characteristic	I	CR		
3	29/12/15	Differential equations	I	CR		
1	30/12/15	Transfer function and block diagram representation	I	CR		
5	4/1/16	considering electrical systems with examples	I	CR		
6	5/1/16	Block diagram algebra	I	CR		
3	6/1/16	Reduction using Mason's gain formula	I	CR		
1	11/1/16	Reduction using Mason's gain formula	I	CR		
5	12/1/16	Translational and rotational systems	I	CR		
6	12/1/16	" "				
3	13/1/16	transfer function of DC servo motor	II	CR		
5	18/1/16	" "	II	CR		
5	19/1/16	transfer function of				