

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3	5/12/16	Control systems- Introduction	I	class Room (Black board)	-	
7	6/12/16	classification of control systems	I	CR		
5	8/12/16	open loop and closed loop control systems - explanation	I	CR		
1	9/12/16	Feedback characteristics	I	CR		
3	12/12/16	Effect of feedback characteristics	I	CR		
7	13/12/16	Translational mechanical systems problems	I	CR		
5	15/12/16	problems	I	CR		
1	16/12/16	Rotational-mechanical systems - problems	I	CR		
3	19/12/16	Transfer function and block diagram representation	I	CR		
7	20/12/16	considering electrical systems with examples	I	CR		
5	22/12/16	Block diagram algebra - Problem	I	CR		
1	23/12/16	problems on block diagram reduction	I	CR		
3	26/12/16	signal flow graphs - mason's gain formula	I	CR		
7	27/12/16	Problems on mason's gain formula	I	CR		
5	29/12/16	Transfer function of DC servo motor	II	CR		
1	30/12/16	"	II	CR		
3	2/1/17	Transfer function of AC servo motor	II	CR		
7	3/1/17	synchro transmitter and receiver	II	CR		
5	5/1/17	"	II	CR		
1	6/1/17	Standard test signal	II	CR		

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3	9/1/17	Time response of second order systems	II	CR		
7	10/1/17	characteristic equation of feed back systems	II	CR		
3	16/1/17	Transient response of 2nd order systems	II	CR		
7	17/1/17	"	II	CR		
7	24/1/17	Time domain specifications	II	CR		
5	26/1/17	Problems	II	CR		
1	27/1/17	Steady state response	II	CR		
3	30/1/17	Error constant & Problems	II	CR		
7	31/1/17	Effects of PD and PI controller	II	CR		
5	2/2/17	Effect of PID controller	II	CR		
1	3/2/17	concept of stability	II	CR		
3	6/2/17	Routh's stability criterion.	II	CR		
7	7/2/17	Problems	II	CR		
5	9/2/17	concept of stability	III	CR		
7	10/2/17	Root locus concept	III	CR		
3	13/2/17	construction of Root locus	III	CR		
7	14/2/17	Problems	III	CR		
5	16/2/17	Effects of adding poles and zero's	III	CR		
1	17/2/17	to $G(s)$, $H(s)$ on the root loci	III	CR		
3	20/2/17	"	III	CR		

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
7	21/2/17	Introduction, Frequency domain specifications	IV	CR		
5	23/2/17	Determination of frequency domain specifications	IV	CR		
3	27/2/17	"	IV	CR		
3	6/3/17	Determination of transfer function of Bode diagram	IV	CR		
7	7/3/17	Phase margin and Gain margin	IV	CR		
5	9/3/17	Stability analysis from bode Plot	IV	CR		
1	10/3/17	Polar plots and stability analysis	IV	CR		
3	13/3/17	Nyquist Plot and stability analysis	IV	CR		
5	16/3/17	Introduction and Preliminary design	IV	CR		
1	17/3/17	considerations - lag compensator				
3	20/3/17	= lead and = lead lag compensator	V	CR		
7	21/3/17	lag compensation based on frequency response approach	V	CR		
1	24/3/17					
3	27/3/17	state, state variables and state model	V	CR		
7	28/3/17	Derivation of state model from block diagram	V	CR		
5	30/3/17	Diagonalization -	V	CR		
1	31/3/17	solving the time invariant equations	V	CR		
7	4/4/17	state transition matrix	V	CR		
5	6/4/17	Problems	V	CR		
1	7/4/17	concept of controllability and observability	V	CR		