

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
5	18/3	Introduction	I	C.R		
7	19/3	concepts of control systems	2	C.R		
1	20/3	open loop and closed loop control systems.	2	C.R		
7	21/3	Differences.	2	C.R		
6	24/3	different branches of control systems	2	C.R		
5	25/3	Feed back classification	2	C.R		
4	26/3	effects of feed back	2	C.R		
1	27/3	Differential equations, I.R & Transfer function	2	CR		
7	28/3	mechanical translational system	2	CR		
5	1/4	mechanical rotational system	2	CR		
4	2/4	Introduction	II	CR		
1	3/4	Transfer function of DC servomotor.	II	CR		
7	4/4	AC servomotor	II	CR		
6	7/4	Synchro transmitter & receiver	II	CR		
5	8/4	Block diagram algebra	II	CR		
4	9/4	representation by signal flow graph	II	CR		
1	10/4	reduction using Mason's gain formula.	II	CR		
7	11/4	problem	II	CR		
6	14/4	problem	II	CR		
5	15/4	Introduction	III	CR		

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4	11/4	standard test signals	<u>II</u>	CA		
1	12/4	Time response of first order systems	<u>II</u>	CA		
7	15/4	characteristic equation of feedback control systems	<u>II</u>	CA		
6	21/4	Transient response of second order systems	<u>II</u>	CA		
5	22/4	Time domain - Steady state	<u>III</u>	CA		
4	23/4	Steady state response	<u>III</u>	CA		
1	24/4	Steady state errors	<u>III</u>	CA		
7	25/4	error constants	<u>III</u>	CA		
6	26/4	Effects of PD system	<u>III</u>	CA		
5	29/4	effects of PI system	<u>III</u>	CA		
4	30/4	Introduction	<u>IV</u>	CA		
7	2/5	Time concept of stability.	<u>IV</u>	CA		
6	5/5	Routh's stability criterion	<u>IV</u>	CA		
6	19/5	Limitations of Routh's stability.	<u>IV</u>	CA		
5	20/5	The root-locus concept	<u>IV</u>	CA		
4	21/5	Construction of root locus.	<u>IV</u>	CA		
1	22/5	Introduction	<u>V</u>	CA		
7	23/5	Frequency domain specifications	<u>V</u>	CA		
6	26/5	Bode plots	<u>V</u>	CA		
5	27/5	Gain margin from Bode plots	<u>V</u>	CA		

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7	28/5	Phase margin from o.d.e. plot	<u>V</u>	CA		
1	29/5	Stability analysis	<u>V</u>	CA		
2	29/5	Introduction	<u>VI</u>	CA		
6	2/6	Polar plots	<u>VI</u>	CA		
5	3/6	Stability analysis	<u>VI</u>	CA		
7	4/6	Root locus plots	<u>VI</u>	CA		
1	5/6	Stability analysis	<u>VI</u>	CA		
7	6/6	Problems	<u>VI</u>	CA		
6	10/6	Introduction	<u>VII</u>	CA		
5	12/6	Compensative techniques	<u>VII</u>	CA		
4	14/6	Lag compensator	<u>VII</u>	CA		
1	14/6	Lead compensator	<u>VII</u>	CA		
2	20/6	Lead - lag compensator	<u>VII</u>	CA		
6	20/6	PID Controller	<u>VII</u>	CA		
5	24/6	Problems	<u>VII</u>	CA		
4	28/6	Introduction	<u>VIII</u>	CA		
1	28/6	Concept of state	<u>VIII</u>	CA		
2	29/6	State variables	<u>VIII</u>	CA		
5	1/7	State model	<u>VIII</u>	CA		
8	4/7	State space analysis	<u>VIII</u>	CA		

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dates & services.