

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
	8/12/16	open loop and closed loop control systems	I	CR		
	9/12/16	"				
	13/12/16	classification of control systems				
	14/12/16	feedback characteristics				
	15/12/16	effect of feedback characteristics				
	16/12/16	"				
	20/12/16	Differential equations				
	21/12/16	transfer functions and block diagram represe.				
	22/12/16	Considering electrical systems as examples				
	23/12/16	"				
	27/12/16	Block diagram algebra representation by SFG				
	28/12/16	Reduction using Mason's gain formula				
	29/12/16	"				
	30/12/16	translational and rotational mech systems				
	3/1/17	"				
	4/1/17	transfer function of DC servomotor	II	CR		
	5/1/17	"				
	6/1/17	transfer function of AC servomotor				
	10/1/17	"				
	11/1/17	synchro transmitter & receiver				

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	12/1/17	"				
	13/1/17	standard test signals				
	17/1/17	Time response of second order system				
	18/1/17	characteristic eq'n of feedback Cont. sys				
	19/1/17	transient response of 2nd order system				
	20/1/17	"				
	24/1/17	Time domain Specification				
	25/1/17	steady state response				
	27/1/17	steady state error error of constants				
	31/1/17	effects of PD, PI & PID Controllers				
	1/2/17	"				
	2/2/17	Concept of stability	III	CR		
	3/2/17	Routh's stability criterion				
	7/2/17	"				
	8/2/17	qualitative stability and Conditional stability				
	9/2/17	The root locus concept				
	10/2/17	Construction of root locus				
	14/2/17	"				
	15/2/17	effect of adding poles & zeros				
	16/2/17	"				

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	17/2/17	"				
	21/2/17	Introduction, -Control frequency domain specific	IV	CR		
	22/2/17	determination of -Control frequency domain specific				
	23/2/17	"				
	24/2/17	determination of transfer function from the Bode diagram				
	1/3/17	phase margin gain margin				
	2/3/17	stability analysis from Bode plot				
	3/3/17	polar plot stability analysis				
	7/3/17	nyquist plot stability analysis				
	8/3/17	Introduction and preliminary design considerations				
	9/3/17	Lag, Lead, Lag-lead Compensations				
	10/3/17	"				
	14/3/17	Concepts of state, state variables	V	CR		
	15/3/17	state model, Derivation of state model from block diagram				
	16/3/17	"				
	17/3/17	diagonalization				
	21/3/17	"				
	22/3/17	solving the time invariant state eqn's				
	23/3/17	"				
	24/3/17	state transition matrix				

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