				M. I. T, RAYAGADA						
				NICS AND TELECO		NGG				
				LAN FOR SUMMER						
NAME OF THE FACULTY		Smita F 6th	ratnalk	DEPT SUBJECT	ETC	tom and		nonta		
SEMESTER				TOTAL PERIODS	Control sy 60	-	Compo	Jnents		
NO. OF PERIODS PER WEEK		4 80 100		CLASS TEST	20					
END SEMESTER EXAM TOTAL MARKS				CLASS TEST	20	' 				
WEEK PERIOD			CHAPTER		TOPIC TO BE COV	/FRFD				
1st	1st	Fundamentals of control system		Introduction about control system						
	2nd			Classification of control system						
	3rd			Effect of feedback, standard test signals						
	4th			servomechanism						
	1st									
	2nd	Transfer function		Regulators Transfer function of system						
2nd	3rd			impulse response						
	4th			poles and zeros of transfer function						
	1st			Representing of poles and zeros in s plane						
1	2nd			Advantage of transfer function						
3rd	3rd			Disadvantage of transfer function						
	4th			Problem of transfer function						
	1st			problems of transfer function						
	2nd	Contro	ol system	Components of contro						
4th	3rd		nents and		i system					
	4th		ematical	Diode modulator and o	demodulator					
	1st		elling of	DC and AC servomotor						
	2nd		al system	Modelling of electrical		ous syster	m)			
5th	3rd	<b>pye</b>		Basic elements of bloc		5003 57500	,			
	4th			Rules for block diagram reduction						
	1st			procedure for reduction of block diagram						
6th	2nd		diagram	simple problem for equivalent transfer function						
	3rd		gnal flow	Basic definition in SFG and properties						
	4th	Gi	raphs	Masons gain formula						
	1st	1		solving signal flow graph						
7th	2nd			simple problem of signal flow graph						
	3rd			Definition of time, stability, steady state response						
	4th			Accuracy, transient accuracy, in sensitivity and robustness						
	1st			System time response						
8th	2nd		ime domain	Analysis of steady state	e error					
	3rd		lysis of	step, ramp and parabolic						
	4th	control systems		First order system and second order system						
9th	1st			Derivation of time response (Delay time, Rise time)						
	2nd			peak time and setting time						
	3rd	Fee	dback	Effects of patameter v						
	4th		cteristics	Basic controlection of						
10th	1st		ontrol	Interval derivative						
2000	2nd		stems	Effect of feedback						

	3rd		P and PI			
	4th		PD and PID			
11th	1st		Location of poles on stability			
	2nd	Stability concept and Root locus method	Routh hurwitz stability			
	3rd		Root locus methods			
	4th		Step for root locus			
	1st		Method of design			
12th	2nd		Step for routh Hurwitz criteria			
	3rd		Simple problem			
	4th		Simple problem			
13th	1st		Frequency response and relationship between time and freqency			
	2nd	Frequency response analysis and	Methods of frequency of response			
	3rd		Polar plot draw			
	4th		Bode a plot draw			
	1st		Gain margin snd phase margin			
14th	2nd	bode plot	Nyquist plot			
	3rd		simple problems			
	4th		Concept of state			
15th	1st	State variable	State variable and state model			
	2nd		state model			
	3rd	anarysis	State model for linear continues time function			
	4th		problem solving			