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Name	af ab a farally a	Lesson	Plan	
Name of the Institute:		CV RAMAN POLYTECHNIC		
Deban	tment :	ELECTRONICS AND TELECOMMU	INICATION ENGINEERING/ELECTRICAL ENGINEERING	
Somos	tor/Division/Day			
Semester/Division/Branch: 1ST/EE&MECH Subject Name with code: Fundamental of Electrical and Ele			lectronics Engineering	
	No. of Class (Required):	60	ectronics Engineering	
	y Name :	SABYASACHI PATRA/ RASHMI R	ANJAN MARTHA	
Class			Remark	
No.	Brief Description of t	he Topic/Chapter to be taught	NO.	
1	Introduction to Basic elec			
2	Passive Active Componer			
3	Resistances, Capacitors, I			
5	Diodes, Transistors FET			
6	MOS and CMOS and their			
7	Concept and simple prob			
8				
9	Definition, classification and Working of diode			
10	PN juction			
11	LED, Zener,LED, Zener			
12	FET, Concept of MOS and	CMOS		
	Overview of Analog Circui			
13	DC/AC voltage/current n	eriodic/non-periodic signals		
14	average, rms, peak values waveforms,	, umerent types of signal		
15	Ideal/non-ideal voltage/co	urrent sources		
15	,independent/dependent	voltage current sources.		
	(Definitions)			
16	Operational Amplifiers-Ide	eal Op-Amp,Practical op	,	
	amp,Open loop and closed	d loop configurations,		
17_	Application of Op-Amp as amplifier			
18	adder, differentiator and integrator			
19	doubt clearing class			
20_	Introduction to Boolean A	gebra,		
21	Electronic Implementation Simple problems of Numb	or system		
	Gates-Functional Block Ap			
23	Storage elements-Flin Flon	s-A Functional block approach	-	
	Counters: Ripple counter d			
	Up/down counter design			
	decade counter design			
	Introduction to digital IC G	ates (of TTL Type).		
	Introduction to digital IC Ga		3×700	
30	doubt clearing class			
31	Introduction to Fundament			
		of EMF, Current, Potential		
ļ	Difference, Power and Ener	гду	1178 a	
33	Introduction to Fundament	al of Magnetic circuit,Define		
	M.M.F, magnetic force			
		of permeability, reluctance,		
1	eakage factor			
	Analyze the BH curve, hyste			
		of Electromagnetic induction,		
F	araday's laws of electroma	gnetic induction, Lenz's law		

Class No.	Brief Description of the Topic/Chapter to be taught	Remark
37	Dynamically industry of Cartinus	
31	Dynamically induced emf, Statically induced emf, Equations	
38	of self and mutual inductance	
	Analogy between electric and magnetic circuits.	
39	doubt clearing class	
40	Introduction to AC circuit: Cycle, Frequency, Periodic time, Amplitude, Angular velocity,	
41	Understanding the concept of RMS value, Average value, Form Factor Peak Factor	
42	Understanding the concept of impedance, phase angle, and power factor	
43	Mathematical and phasor representation of alternating emfand current	
44	Voltage and Current relationship in Star and Delta	
45	A.C in resistors, inductors and capacitors	
46	Analyze the A.C in R-L, R-C series	
47	Analyze the A.C in R-L-C series and parallel circuits	
48	Power in A. C. Circuits, power triangle.	
49	doubt clearing class	
50	Introduction to Transformer and Machines	
51	General construction of Transformer	
52	principle of different type of transformers	-
53	Emf equation of transformers	
54	Transformation ratio of transformers	
55	Auto transformers	
56	Construction of DC motors	
57	Working principle of DC motors	
58	Basic equations of different types of DC motors.	
59_	characteristic of different types of DC motors.	
60	doubt clearing class	

Sign. of Faculty