## "PVCNSSK" GOVT. POLYTECHNIC BILASPUR at KALOL PLANNED THEORY SYLLABUS COVED 1 OF

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GPR		Department							
		Sem & D		ces & Hum		<u> COVERAGE</u>			
SY	LLARUS		ranch :2 <sup>nd</sup> & EE &	ME	Humanities.				
COVERACE Total Period				Sub	Subject: FEEE				
Sr	Su Strage Start Collog		us: Theory:56	s: Theory:56		Duration : 3years			
No	Period No	Tout							
		горіс							
1.	10(1-10)	Overview of		Details	Instruction	Additional			
		Electron:	Passive Active	Component	Reference	Study			
		Comme	Capacitors, Induc	tors Die 1	es,	Recommende Rem	narks		
		Components	FET, MOS and CN	1013, Diodes, Transistor	rs.				
		& Signals	Signals.	108 and their Application	ns				
			Deriodia/	AC, voltage/current	nt.				
			periodic/non- peri	odic signals, average					
			peak values, di	fferent types of	1S,				
			waveforms, Ideal	/non ideal	nal				
			sources indon-	voltage/curre	ent				
			Current and	ndent/dependent volta	ge				
			' sources.		5-				
2	08(11 10)								
	00(11-10)	Overview of	Operational	112			.		
\ \	1	Analog	Practical an	iplifiers-Ideal Op-Amp	o,		/		
		Circuits	Configuration	Open loop and closed loop			/		
			configurations, Ap	plication of Op-Amp as					
			ampillier, adder, dif	ferentiator and integrator					
3.	09(19-27)								
		<b>Overview of</b>	Introduction to Boo	lean Alasha Di					
		Digital	Implementation of B	ooloon Que					
		Electronics	Functional Block	oblean Operations, Gates-					
			Flip Flope A F	proach, Storage elements-					
			Counter Di t	ctional block approach.		÷			
			Counters: Ripple,	Up/down and decade					
			introduction to digita	I IC Gates (of TTL, Type)					
				·					
4.	10(28-37)	Electric and	EMF, Current, Pote	ntial Difference D					
1		Magnetic	and Energy: MA	A F					
		Circuite	permeability have	A.F., magnetic force,		(A).			
		circuits	permeability, nyster	esis loop, reluctance,					
			Idakage factor and BH	I curve; Electromagnetic					
			induction, Faraday's	laws of electromagnetic					
			induction, Lenz's law	: Dynamically induct					
			emf; Statically induce	d emf: Equation of the					
			and mutual inductor	u chin, Equations of self					
			electric and manual	ice; Analogy between					
	1		enectice and magnetic c	circuits.					
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	Sr No	Period No	Topic	Details	Instruction Reference	Additional Study Recommanda	Remarks
5.		12(38-49)	A.C. Circuits:	Cycle, Frequency, Periodic time, Amplitude, Angular velocity, RMS value, Average value, Form Factor Peak Factor, impedance, phase angle, and power factor: Mathematical and phasor representation of alternating emf and current; Voltage and Current relationship in Star and Delta connections; A.C in resistors, inductors and capacitors; A.C in R-L series, R-C series, R-L-C series and parallel circuits; Power in A. C. Circuits, power triangle.		e	
	6.	7(50-56)	Transformer and Machines:	General construction and principle of core and shell type of transformers; Emf equation and transformation ratio of transformers; Auto transformers; Basic principle of Electromechanical energy conversion.			

25/05/2024

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