GOV	/T. POLYTECHNIC	SAMBALPUR LESSON PLAN
Discipline : ELECTRICAL ENGG.	Semester:3th Sem	Name of the Teaching Faculty: Mrs. Lipsarani Bagh
Subject : CNT	No. of Days / per week class allotted : 04	Semester From date : 01.08.2023 To Date : 30.11.2023 No. of Weesks : 15
Week	Class Day	Topics
2007 (APPER TO A RECORDER THE DIMENSION OF	1st	1.MAGNETIC CIRCUITS 1 . 1 Introduction
15T AUG	2nd	1 . 2 Magnetizing force, Intensity, MMF, flux and their relations
	3rd	1 . 3 Permeability, reluctance and permeance
	4th 5th	1 . 4 Analogy between electric and Magnetic Circuits  Doubt Clear Class
	1st	1.5B-H Curve
2ND AUG	2nd	1 . 6 Series & parallel magnetic circuit 1 . 7 Hysteresis loop
	3rd	
	4th	Numerical Problems discussion, Revision
	5th	Doubt Clear Class
× .	1st 2nd	COUPLED CIRCUITS: 2. 1 Self Inductance and Mutual Inductance 2. 2 Conductively coupled circuit and mutual impedance 2. 3 Dot convention
200 AUG	3rd	2.4 Dot convention.2.5 Cofficent of coupling
3RD AUG	4th	2 . 5 Series and parallel connection of coupled inductors
	5th	Doubt Clear Class
	1st	2 . 6 Solve numerical problems
	7nd	3. CIRCUIT ELEMENTS AND ANALYSIS 3. 1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements
4TH AUG		3 . 2 Mesh Analysis 3 . 2 Mesh Analysis, Mesh Equations by inspection 3 . 3 Super mesh Analysis
	401	3 . 4 Nodal Analysis, Nodal Equations by inspection
		Doubt Clear Class
		3 . 4 Nodal Analysis, Nodal Equations by inspection 3 . 5 Super node Analysis 3 . 6 Source Transformation Technique
1ST SEPT		3 . 7 Solve numerical problems (With Independent Sources Only)  NETWORK THEOREMS: 4.1 Star to delta and delta to star transformation
- 1 4%		Doubt Clear Class
		4.2 Super position Theorem
THE SERT	Lind	Solve numerical problems (With Independent Sources Only)  4.3 Thevenin's Theorem
2IND SEPT		4.4 Norton's Theorem Doubt Clear Class
	5th	bout cical class
		Solve numerical problems (With Independent Sources Only) 4.5 Maximum power Transfer Theorem.
3RD SEPT	3rd	Solve numerical problems (With Independent Sources Only)
	4th 5th	AC CIRCUIT AND RESONANCE: 5.1 A.C. through R-L, R-C & R-L-C Circuit Doubt Clear Class
	1st !	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.
	2nd !	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits 5.4 Power factor & power tri 5.5 Deduce expression for active, reactive, apparent power
4TH SEPT	3rd 4th	5.6 Derive the resonant frequency of series resonance and parallel resonance circuit
	5th I	Doubt Clear Class
		5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.
15T OCT	3rd S	5.8 Solve numerical problems Solve numerical problems
		POLYPHASE CIRCUIT 6.1 Concept of poly-phase system and phase sequence Doubt Clear Class
		5.2 Relation between phase and line quantities in star & delta connection
2ND OCT		5.3 Power equation in 3-phase balanced circuit 6.4 Solve numerical problems
		5.5 Measurement of 3-phase power by two wattmeter method Doubt Clear Class
		5.6 Solve numerical problems
3RD OCT	2nd T	RANSIENTS: 7.1 Steady state & transient state response. 7.2 Response to R-L, R-C & RLC circuit under DC condition
20000	4th 7	2 Response to R-L, R-C & RLC circuit under DC condition
	5th	Doubt Clear Class
15T NOV	2nd 7	2 Response to R-L, R-C & RLC circuit under DC condition 3 Solve numerical problems
		WO-PORT NETWORK 8.1 Open circuit impedance (z) parameters 2.2 Short circuit admittance (y) parameters
		oubt Clear Class
2ND NOV		3 Transmission (ABCD) parameters 4 Hybrid (h) parameters
		5 Inter relationships of different parameters
F		.6 T and π representation

3RD NOV	1st	8.7 Solve numerical problems
	2nd	8.7 Solve numerical problems
	3rd	FILTERS.9.1 Define filter9.2 Classification of pass Band, stop Band and cut-off frequency
	4th	9.3 Classification of filters 9.4 Constant – K low pass filter.
	5th	Doubt Clear Class
		L. Phys.
	1st	9.5 Constant – K high pass filter. 9.6 Constant – K Band pass filter
ATH NOV	2nd	9.6 Constant – K Band pass filter.  9.7 Constant – K Band elimination filter.
	3rd	9.8 Solve Numerical problems

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4th

5th

Signature of Faculty

4TH NOV

Signature of HOD of Electrical Engineering Dept.

9.8 Solve Numerical problems

Doubt Clear Class