

Lesson Plan

	Discipline:Electrical Engineering	Semester-3rd Winter 2023 (B)	Name of the Teachng Faculty: B.SUBHALAXMI PANI	
Sl. No.	Subject-Circuit and Network Theory	No. Of Days/Week class allotted:05	Semester From date: 07/08/2023 To date: 30/11/2023. No of weeks: 14	
	Weeks/Months	Class Day	Topic	
1	1st Week	1st (07/08/2023)	1 . 1 Introduction	
		2nd (10/08/2023)	1 . 2 Magnetizing force, Intensity, MMF, flux and their relations	
		3rd (11/08/2023)		
		4th (12/08/2023)		
2	2nd Week	5th (14/08/2023)	1 . 3 Permeability, reluctance and permeance	
		1st (17/08/2023)	1 . 4 Analogy between electric and Magnetic Circuits	
		2nd (17/08/2023)	1 . 5 B-H Curve	
		3rd (19/08/2023)	1 . 6 Series & parallel magnetic circuit.	
3	3rd Week	4th (21/08/2023)	1 . 7 Hysteresis loop	
		5th (24/08/2023)	2 . 1 Self Inductance and Mutual Inductance	
		1st (25/08/2023)	2 . 2 Conductively coupled circuit and mutual impedance	
		2nd (25/08/2023)	2 . 3 Dot convention	
		3rd (26/08/2023)	2 . 4 Coefficient of coupling	
4	4th Week	4th (28/08/2023)	2 . 5 Series and parallel connection of coupled inductors.	
		5th (31/08/2023)	2 . 6 Solve numerical problems	
		1st (01/09/2023)	3 . 1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	
		2nd (02/09/2023)	3 . 2 Mesh Analysis, Mesh Equations by inspection	
5	5th Week	3rd (04/09/2023)	3 . 3 Super mesh Analysis	
		4th (07/09/2023)	3 . 4 Nodal Analysis, Nodal Equations by inspection	
		5th (08/09/2023)	3 . 5 Super node Analysis.	
		1st (08/09/2023)	3 . 6 Source Transformation Technique	
		2nd (09/09/2023)	3 . 7 Solve numerical problems (With Independent	
6	6th Week	3rd (14/09/2023)	4.1 Star to delta and delta to star transformation	
		4th (15/09/2023)	4.2 Super position Theorem	
		5th (15/09/2023)	4.3 Thevenin's Theorem	
		1st (16/09/2023)	4.4 Norton's Theorem	
		2nd (18/09/2023)		
7	7th Week	3rd (21/09/2023)	4.5 Maximum power Transfer Theorem.	
		4th (22/09/2023)		
		5th (22/09/2023)	4.6 Solve numerical problems (With Independent Sources	
		1st (23/09/2023)	5.1 A.C. through R-L, R-C & R-L-C Circuit	
		2nd (25/09/2023)	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	
8	8th Week	3rd (29/09/2023)		
		4th (29/09/2023)	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits	
		5th (30/09/2023)		
		1st (05/10/2023)	5.4 Power factor & power triangle	

	9th Week	1st (05/10/2023)	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.
		2nd(05/10/2023)	5.8 Solve numerical problems
		3rd (06/10/2023)	5.5 Deduce expression for active, reactive, apparent power.
		4th (09/10/2023)	5.6 Derive the resonant frequency of series resonance and parallel resonance circuit
		5th (10/10/2023)	6.3 Power equation in 3-phase balanced circuit.
		1st (12/10/2023)	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.
		2nd (13/10/2023)	5.8 Solve numerical problems
		3rd (13/10/2023)	6.1 Concept of poly-phase system and phase sequence
11	11th Week	4th (16/10/2023)	6.2 Relation between phase and line quantities in star & delta connection
		5th (19/10/2023)	6.3 Power equation in 3-phase balanced circuit.
		1st (20/10/2023)	6.4 Solve numerical problems
12	12th Week	2nd (30/10/2023)	6.5 Measurement of 3-phase power by two wattmeter method.
		3rd (02/11/2023)	6.6 Solve numerical problems.
		4th (03/11/2023)	7.1 Steady state & transient state response.
		5th (03/11/2023)	7.2 Response to R-L, R-C & RLC circuit under DC condition.
		31st (04/11/2023)	7.3 Solve numerical problems
13	13th Week	32nd (06/11/2023)	
		33rd (09/11/2023)	8.1 Open circuit impedance (z) parameters
		34th (10/11/2023)	8.2 Short circuit admittance (y) parameters
		5th (10/11/2023)	8.3 Transmission (ABCD) parameters
		1st (11/11/2023)	8.4 Hybrid (h) parameters.
14	14th Week	2nd (13/11/2023)	
		3rd (16/11/2023)	8.5 Inter relationships of different parameters.
		4th (17/11/2023)	
		5th (17/11/2023)	8.6 T and p representation.
15	15th Week	1st (18/11/2023)	8.7 Solve numerical problems
		2nd (20/11/2023)	9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off
		3rd (23/11/2023)	9.3 Classification of filters. 9.4 Constant – K low pass filter.
		4th (24/11/2023)	9.5 Constant – K high pass filter. 9.6 Constant – K Band 9.7 Constant – K Band elimination filter.9.8 Solve
		4th (24/11/2023)	Revision & Dout Solve