LESSON PLAN (WINTER- 2021)

Subject- Circuit Network and Theory **Semester- 3rd** (E1) **Branch- Electrical Engineering**

NAME OF FACULTY-LIPSARANI BAGH

Sl. No.	Date	Chapter	Topic Name	No. of periods
1	04-10-2021	MAGNETIC CIRCUITS	1 . 1 Introduction1 . 2 Magnetizing force, Intensity, MMF, flux and their relations	1
2	05-10-2021		1 . 3 Permeability, reluctance and permeance1 . 4 Analogy between electric and Magnetic Circuits	1
3	07-10-2021		1 . 5 B-H Curve	1
4	08-10-2021		1 . 6 Series & parallel magnetic circuit.	1
5	18-10-2021		1 . 7 Hysteresis loop	1
6	21-10-2021	COUPLED CIRCUITS	2 . 1 Self Inductance and Mutual Inductance2 . 2 Conductively coupled circuit and mutual impedance	1
7	22-10-2021		2 . 3 Dot convention2 . 4 Coefficient of coupling	1
8	23-10-2021		2 . 5 Series and parallel connection of coupled inductors	1
9	24-10-2021		2 . 6 Solve numerical problems	1
10	25-10-2021	CIRCUIT ELEMENTS AND ANALYSIS	3 . 1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	1
11	26-10-2021		3 . 2 Mesh Analysis, Mesh Equations by inspection	1
12	28-10-2021		3 . 3 Super mesh Analysis	1
13	29-10-2021		Solve Numerical	1
14	30-10-2021		3 . 4 Nodal Analysis, Nodal Equations by inspection	1
15	01-11-2021		3 . 5 Super node Analysis.	1
16	02-11-2021		4.6 Solve numerical problems (With Independent Source	1
17	05-11-2021		3 . 6 Source Transformation Technique3 . 7 Solve numerical problems (With Independent Sources Only)	1
18	06-11-2021	NETWORK THEOREMS	4.1 Star to delta and delta to star transformation	1
19	08-11-2021		4.2 Super position Theorem	1
20	09-11-2021		Solve Numerical	1
21	11-11-2021		4.3 Thevenin's Theorem	1
22	12-11-2021		4.4 Norton's Theorem	1
23	13-11-2021		Solve Numerical	1
24	15-11-2021		4.5 Maximum power Transfer Theorem.	1
25	16-11-2021		4.6 Solve numerical problems (With Independent Source	1
26	18-11-2021		Solve Numerical	1
27	20-11-2021	AC CIRCUIT	5.1 A.C. through R-L, R-C & R-L-C Circuit	1
28	22-11-2021		5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	1
29	23-11-2021		cont.....	1
30	25-11-2021		5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits	1

31	26-11-2021	AND RESONANCE	Solve Numerical	1
32	27-11-2021		Solve Numerical	1
33	29-11-2021		5.4 Power factor & power triangle5.5 Deduce expression for active, reactive, apparent power.	1
34	30-11-2021		5.6 Derive the resonant frequency of series resonance and parallel resonance circuit	1
35	02-12-2021		5.7 Define Bandwidth, Selectivity & Q-factor in series ci	1
36	03-12-2021		5.8 Solve numerical problems	1
37	04-12-2021	POLYPHASE CIRCUIT	6.1 Concept of poly-phase system and phase sequence	1
38	06-12-2021		tion between phase and line quantities in star & delta co	1
39	07-12-2021		6.3 Power equation in 3-phase balanced circuit.	1
40	09-12-2021		6.4 Solve numerical problems	1
41	10-12-2021		Measurement of 3-phase power by two wattmeter meth	1
42	11-12-2021		6.6 Solve numerical problems	1
43	13-12-2021	TRANSIENTS	7.1 Steady state & transient state response	1
44	14-12-2021		7.2 Response to R-L, R-C & RLC circuit under DC condi	1
45	16-12-2021		cont.....	1
46	17-12-2021		7.3 Solve numerical problems	1
47	18-12-2021	TWO-PORT NETWORK	8.1 Open circuit impedance (z) parameters	1
48	20-12-2021		8.2 Short circuit admittance (y) parameters	1
49	21-12-2021		Solve Numerical	1
50	23-12-2021		8.3 Transmission (ABCD) parameters	1
51	24-12-2021		8.4 Hybrid (h) parameters.	1
52	27-12-2021		8.5 Inter relationships of different parameters	1
53	28-12-2021		8.6 T and π representation.	1
54	30-12-2021		8.7 Solve numerical problems	1
55	31-12-2021	FILTERS	9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off frequency	1
56	01-01-2022		9.3 Classification of filters 9.4 Constant – K low pass filte	1
57	03-01-2022		9.5 Constant – K high pass filter	1
58	04-01-2022		9.6 Constant – K Band pass filter.9.7 Constant – K Band elimination filter.	1
59	06-01-2022		9.8 Solve Numerical problems	1
60	07-01-2022		revision	1
61	08-01-2022		revision	1

Nayak
24/06/21
Lect (Elect)
for H.O.D(ELECT)