

LESSON PLAN	
JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA	
Name of the Faculty: ASTAMITA MISHRA	Academic Year: 2020-2021
Course No.: Th 2	Course name: Circuit and Network Theory
Programme: Diploma	Branch: Electrical
Year/Sem: 2nd/3rd	Section:

Sl. No.	Period	Time (min)	Unit	Topic to be Covered	Teaching Method
1.	1.	55 min	1	Introduction, magnetizing force, mmf, and their relation	Black board
2.	2.	55min	1	Permeability, reluctance and permeance	Black board
3.	3.	55min	1	Analogy between electric and magnetic circuit	Black board
4.	4.	55min	1	B-H curve	Black board
5.	5.	55min	1	Series and parallel magnetic circuit	Black board
6.	6.	55min	1	Hysteresis loop	Black board
7.	7.	55min	2	Self inductance and mutual inductance	Black board
8.	8.	55min	2	Conductively coupled circuit and mutual inductance	Black board
9.	9.	55min	2	Dot convention, coefficient of coupling	Black board
10	10.	55min	2	Series and parallel connection of coupled inductors	Black board
11	11.	55 min	2	Numerical problems solving	Black board
12	12.	55 min	3	Types of circuit elements	Black board
13	13.	55min	3	Mesh analysis	Black board
14	14.	55 min	3	Problems solving	Black board
15	15.	55 min	3	Super mesh analysis	Black board
16	16.	55min	3	Node analysis	Black board
17	17.	55min	3	Super node analysis	Black board
18	18.	55 min	3	Source transformation techniques	Black board
19	19.	55 min	3	Numerical problems solving	Black board
20	20.	55 min	3	Numerical problems solving	Black board
21	21.	55 min	4	Star to delta and delta to star transformation	Black board
22	22.	55min	4	Superposition theorem	Black board
23	23.	55min	4	Thevenins theorem	Black board
24	24.	55 min	4	Nortons theorem	Black board

25	25.	55 min	4	Maximum power transfer theorem	Black board
26	26.	55 min	4	Numerical problems solving	Black board
27	27.	55 min	4	Numerical problems solving	Black board
28	28.	55 min	4	Numerical problems solving	Black board
29	29.	55 min	5	Ac through RL, RC, RLC circuit	Projector
30	30.	55 min	5	Ac through RL, RC, RLC circuit	Projector
31	31.	55 min	5	Numerical problems solving	Black board
32	32.	55 min	5	Numerical problems solving	Black board
33	33.	55 min	5	RLC series circuit	Projector
34	34.	55 min	5	RLC parallel circuit	Projector
35	35.	55 min	5	Power factor, power triangle, active, reactive, apparent power	Black board
36	36.	55 min	5	Series resonance, parallel resonance	Black board
37	37.	55 min	5	Band width, selectivity, Q factor	Black board
38	38.	55 min	5	Numerical problems solving	Black board
39	39.	55 min	6	Poly phase system, phase sequence	Black board
40	40.	55 min	6	Relation between phase and line quantity in star and delta system	Black board
41	41.	55 min	6	Power equation	Black board
42	42.	55 min	6	Measurement of 3 phase power by 2 watt meter method	Black board
43	43.	55 min	6	Numerical problems solving	Black board
44	44.	55 min	7	Steady state and transient response	Black board
45	45.	55 min	7	Response to RL, RC, RLC circuit to dc condition	Black board
46	46.	55 min	7	Numerical problems solving	Black board
47	47.	55 min	7	Numerical problems solving	Black board
48	48.	55 min	8	Z parameters, Y parameters	Black board
49	49.	55 min	8	ABCD parameters, h parameters	Black board
50	50.	55 min	8	Interrelationship of different parameters	Black board
51	51.	55 min	8	T and pie representation	Black board
52	52.	55 min	8	Numerical problems solving	Black board
53	53.	55 min	8	Numerical problems solving	Black board
54	54.	55 min	9	Defination, classification of filters	Black board
55	55.	55 min	9	Cut off frequency	Black board

56	56.	55 min	9	Constant K low pass, high pass filter	Black board
57	57.	55 min	9	Constant K band pass, band stop filter	Black board
58	58.	55 min	9	Numerical problems solving	Black board
59	59.	55 min		Revision of all topics	Black board
60	60.	55 min		Revision of all topics	Black board