

**PANIPAT INSTITUTE OF ENGINEERING
AND TECHNOLOGY, PANIPAT
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**LESSON PLAN
Subject Name: - BEE**

Sr. No	Lecture No.	Topics to be Covered	Planned on	TARGET OUTCOME
1	L1	Unit-1: Introduction to the subject BEE	19-04-2021	CO1
2	L2	Ohm's Law, Series and Parallel Circuits	20-04-2021	
3	L3	Numerical based on ohms law	21-04-2021	
4	L4	KVL, KCL and its numerical	22-04-2021	
5	L5	Circuit elements classification	23-04-2021	
6	L6	Loop analysis of resistive circuit	26-04-2021	
7	L7	Numericals on Loop analysis of resistive circuit	27-04-2021	
8	L8	Node Voltage analysis of Circuits	28-04-2021	
9	L9	Numericals on Node Voltage analysis of Circuits	29-04-2021	
10	L10	Star Delta transformation	30-04-2021	
11	L11	Superposition theorem	03-05-2021	
12	L12	Some definitions	04-05-2021	
13	L13	Thevenin's Theorem	05-05-2021	
14	L14	Numerical on Thevenins Theorems	06-05-2021	
15	L15	Norton's Theorem	07-05-2021	
16	L16	Numerical on Nortons Theorems	13-05-2021	
17	L17	Maximum Power Transfer Theorem	14-05-2021	
18	L18	Numerical on Theorems	17-05-2021	
19	L19	Revision of Unit 1	18-05-2021	
20	L20	Test of Unit 1	19-05-2021	

21	L21	Unit 2: AC Fundamentals: Some definitions	20-05-2021	CO2
22	L22	Generation & EMF equation of AC quantities	21-05-2021	
23	L23	Peak, Average and RMS values	24-05-2021	
24	L24	Numerical on RMS values	25-05-2021	
25	L25	Phase, Phase difference and Phasor addition	26-05-2021	
26	L26	Numerical on Phasor addition and subtraction	27-05-2021	
27	L27	Mathematical representations of Phasors	01-06-2021	
28	L28	Numerical on AVG and RMS values	02-06-2021	
29	L29	AC circuits with pure Resistor and Inductor	03-06-2021	CO3
30	L30	Pure capacitor and RL, RC series circuits	04-06-2021	
31	L31	Impedance Triangle, P.F, Importance of PF	07-06-2021	
32	L32	RLC Series Circuits and Series resonance	08-06-2021	
33	L33	AC parallel circuits, phasor method	09-06-2021	
34	L34	Revision of unit 2	10-06-2021	
35	L35	Test of unit 2	11-06-2021	
36	L36	Unit 3: Introduction to three phase circuits, Generation of alternating 3- phase emf, 3-phase balanced circuits	14-06-2021	CO4
37	L37	Voltage and current relations in star connections	15-06-2021	
38	L38	Voltage and current relations in delta connections	16-06-2021	
39	L39	Measurement of 3-phase power by two wattmeter method for various types of star connected balanced loads.	17-06-2021	
40	L40	Measurement of 3-phase power by two wattmeter method for various types of delta connected balanced loads.	18-06-2021	
41	L41	Single Phase Transformer: Concept of magnetic circuits. Relation between MMF & Reluctance. Hysteresis & Eddy current phenomenon.	21-06-2021	CO5
42	L42	Principle, construction	22-06-2021	
43	L43	Emf equation Phasor diagram at ideal, no load conditions.	23-06-2021	

44	L44	Phasor diagram at on load conditions	24-06-2021	
45	L45	Losses & Efficiency, regulation, concept of auto transformer	25-06-2021	
46	L46	OC & SC test, equivalent circuit	28-06-2021	
47	L47	Revision of unit 3	29-06-2021	
48	L48	Test of unit 3	30-06-2021	
49	L49	Unit 4: Electrical Machines: Introduction, Construction of DC machine	06-07-2021	CO6
50	L50	Working of dc machine with commutator action	07-07-2021	
51	L51	Speed control of dc shunt motor	08-07-2021	
52	L52	Generation of rotating magnetic fields	09-07-2021	
53	L53	Construction and working of a three-phase induction motor	12-07-2021	
54	L54	Significance of torque-slip characteristic	13-07-2021	
55	L55	Basics of Single-phase induction motor,	14-07-2021	
56	L56	capacitor start capacitor run Single-phase induction motor working	15-07-2021	
57	L57	Basic construction and working of synchronous generator and motor.	16-07-2021	
58	L58	Electrical Installations: Switch Fuse Unit (SFU), MCB	19-07-2021	
59	L59	ELCB, MCCB	20-07-2021	
60	L60	Types of Wires and Cables, Earthing.	21-07-2021	
61	L61	Revision of unit 4	22-07-2021	
62	L62	Test of unit 4	23-07-2021	
63	L63	Doubt Class	26-07-2021	
64	L64	Doubt Class	27-07-2021	
65	L65	Doubt Class	02-08-2021	