

LESSON PLAN(Summer-2026)

Discipline-Mechanical		Semester-2nd	Name of Teaching faculty-Pritiranjana Lenka
Subject-F E E E		No of Days per week class allotted- 04	Semester from Date-09/01/2026 to Date-08/05/2026 Week-15
SL	WEEK	CLASS DAY	TOPICS
1	1ST	1ST	Introduction,Passive Active Components
2		2ND	Resistances,Capacitors,Inductors
3		3RD	Simple problem on Resistor,capacitor & Inductor
4		4TH	Diodes,Classification of Diode
5	2ND	1ST	PN Junction
6		2ND	Working of LED
7		3RD	Zener diode
8		4TH	Transistors
9	3RD	1ST	FET
10		2ND	MOS and CMOS, Applications of MOS and CMOS
11		3RD	DC/AC, voltage/current signals
12		4TH	Periodic/non-periodic signals
13	4TH	1ST	average, rms, peak values
14		2ND	Different types of signal waveforms,
15		3RD	Ideal/non-ideal voltage/current sources
16		4TH	Independent/dependent voltage current sources.
17	5TH	1ST	Operational Amplifiers-Ideal Op-Amp, Practical op
18		2ND	Open loop and closed loop configurations
19		3RD	Application of Op-Amp as amplifier ,adder
20		4TH	Application of Op-Amp as differentiator and integrator
21	6TH	1ST	Introduction to Boolean Algebra
22		2ND	Electronic Implementation of Boolean Operations

23	6TH	3RD	Gates-Functional Block Approach
24		4TH	Storage elements-Flip Flops-A Functional block
25	7TH	1ST	Storage elements-Flip Flops-A Functional block
26		2ND	Counters: Ripple, Up/down and decade
27		3RD	Introduction to digital IC Gates (of TTL Type).
28		4TH	EMF, Current, Potential Difference
29	8TH	1ST	Power and Energy
30		2ND	M.M.F, magnetic force, permeability,
31		3RD	Faraday's laws of electromagnetic induction
32		4TH	Lenz's law
33	9TH	1ST	Dynamically induced emf
34		2ND	Statically induced emf
35		3RD	Equations of self and mutual inductance;
36		4TH	Analogy between electric and magnetic circuits.
37	10TH	1ST	Cycle, Frequency, Periodic time, Amplitude, Angular
38		2ND	RMS value
39		3RD	Average value,
40		4TH	Form Factor ,Peak Factor
41	11TH	1ST	Problem solving on RMS value, Average value,
42		2ND	Impedance, Phase angle and power factor
43		3RD	Mathematical representation of alternating emf and
44		4TH	Voltage and Current relationship in Star connection
45	12TH	1ST	Voltage and Current relationship in Delta connections
46		2ND	A.C in resistors, Inductors & capacitors
47		3RD	A.C in R-L series
48		4TH	A.C in R-C series circuit
49	13TH	1ST	A.C in R-L-C series circuits
50		2ND	A.C in R-L-C parallel circuits

51	13TH	3RD	Problems solving in A C Circuit
52		4TH	Power in A. C. Circuits, power triangle.
53	14TH	1ST	General principle of different type of transformers
54		2ND	General construction of different type of transformers
55		3RD	Emf equation and transformation ratio of
56		4TH	Auto transformers
57	15TH	1ST	Working principle of motors
58		2ND	Construction of motors
59		3RD	Basic equations of Motors
60		4TH	Characteristic of Motors