

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA
Academic Lesson Plan for summer semester- 2023

Name of the teaching faculty : Sarita Bauri
Semester: 4th
No. of periods per week: 4
End semester exam: 80
Total Marks: 100

Department: Electrical Engineering
Subject: AE &OP-AMP
Total Periods: 60
Class test: 20

Sl. No.	Week	Period	Unit/Chapter	Topic to be Covered
1.	1 st	1 st	P-N JUNCTION DIODE	P-N Junction Diode and its working
2.		2 nd		V-I characteristic of PN junction Diode
3.		3 rd		Important terms such as Ideal Diode, Knee voltage
4.		4 th		Zener breakdown and Avalanche breakdown
5	2 nd	1 st		P-N Diode clipping Circuit.
6		2 nd		P-N Diode clamping Circuit
7		3 rd	TUTORIAL CUM DOUBT CLEAR CLASS	Objective question related to P-N junction diode
8		4 th	SPECIAL SEMICONDUCTOR DEVICES	Thermistors
9	3 rd	1 st		Zener Diode
10		2 nd		Tunnel Diode
11.		3 rd		PIN Diode
12.		4 th	TUTORIAL CUM DOUBT CLEAR CLASS	Objective question related to special semiconductor devices
13	4 th	1 st	RECTIFIER CIRCUITS & FILTERS	Classification of rectifiers
14.		2 nd		Analysis of half wave rectifiers
15.		3 rd		Analysis of full center tapped rectifiers
16.		4 th		Analysis of Bridge rectifiers
17.	5 th	1 st		Calculation of DC output current and voltage
18.		2 nd		RMS value, Rectifier efficiency, Ripple factor
19.		3 rd		Filter
20.		4 th	TUTORIAL CUM DOUBT CLEAR CLASS	Objective question related to rectifier circuit and filter
21.	6 th	1 st	TRANSISTORS	Principle of Bipolar junction transistor
22.		2 nd		Different modes of operation of transistor
23.		3 rd		Current components in a transistor
24.		4 th		Transistor as an amplifier
25.	7 th	1 st		Transistor circuit configuration & its characteristics
26.		2 nd	TUTORIAL CUM DOUBT CLEAR CLASS	Objective question related to Transistor
27.		3 rd	TRANSISTOR CIRCUITS	Transistor biasing
28.		4 th		Stabilization and Stability factor
29.	8 th	1 st		Different method of Transistors Biasing
30.		2 nd		Do
31.		3 rd	TUTORIAL CUM DOUBT CLEAR CLASS	Objective question related to Transistor circuit