

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2022 -2023)

Discipline: Electronics & Tel.Com.	Semester: 5th , Winter /2022	Name of the faculty: Manoj Kumar Behera Email Id: manojbeherafel@kp.kiit.ac.in
Subject: Power Electronics lab (Practical-4)	No. of Days/week: 02 (3 periods / Day) Experiments will be performed in small groups of 5 to 6 students	Start Date: 14/09/2022 End Date: 21/01/2023

Week	Class Day	Practical Topics
1 st	1st	Plotting of V/I characteristics of SCR.
	2nd	Plotting of V/I characteristics of DIAC.
2nd	1st	Plotting of V/I characteristics of TRIAC.
	2nd	Plotting of V/I characteristics of GTO.
3rd	1st	Plotting of V/I characteristics of MOSFET.
	2nd	Construction of R-C Triggering circuit using SCR.
4th	1st	Report writing and Submission.
	2nd	Construction of UJT relaxation oscillator circuit.
5th	1st	Construction of lamp dimmer circuit using TRIAC.
	2nd	Construction of Single Phase Half wave converter.
6th	1st	Construction of Single Phase Half wave converter with R load & RL load.
	2nd	Construction of Chopper.
7th	1st	Report writing and Submission.
	2nd	Construction of Single Phase AC voltage controller using TRIAC.
8th	1st	Construction of Proximity Switch, Burglar alarm, Fire alarm.
	2nd	Report writing and Submission.

9th	1st	Construction of Battery Charger.
	2nd	Study of Servo type voltage AC stabilizer.
10th	1st	Study of SMPS.
11th	2nd	Study of SMPS.
12th	1st	Construction of Buck converter using PWM.
	2nd	Project on Industrial fire control.
13th	1st	Report writing and Submission.
	2nd	Repeat Class for experiment.
14th	1st	Viva and Discussion.
	2nd	Viva and Discussion.