

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2022 -2023)

Discipline: Mechanical Engineering	Semester: 3 rd , Winter/2022	Name of the Teaching Faculty: Rabi Sankar Pattanaik Lecturer Manoj Kaibarta Sr. Technical Asst. Tapas Kumar Rath Sr. Technical Asst. Email ID: rspattnaikfme@kp.kiit.ac.in
Subject: Mechanical Engineering Laboratory-I (Pr.2)	No. of Days/week: 02 (3 periods / Day)	Start Date: 14/09/2022 End Date: 21/01/2023

Week	Class Day	Theory/Practical Topics
1 st	1	Laboratory Visit and familiarize with laboratory. Understanding Laboratory instructions and safety rules.
	2	Study on Rockwell hardness testing machine.
2 nd	3	Determination of hardness number by Rockwell hardness testing machine using B - Scale
	4	Report writing and Submission
3 rd	5	Viva and Discussion
	6	Determination of hardness number by Rockwell hardness testing machine using C - Scale
4 th	7	Report writing and Submission
	8	Viva and Discussion
5 th	9	Study on Impact testing machine.
		Determination of toughness using Impact testing machine (Izod Test)
6 th	10	Report writing and Submission
	11	Viva and Discussion

7th	12	Determination of toughness using Impact testing machine (Charpy Test)
	13	Report writing and Submission
8th	14	Viva and Discussion
	15	Study on Universal Testing Machine
9th	16	Determination of salient points (Young's modulus, yield point, fracture point) from Stress - strain curve using Universal Testing Machine.
	17	Report writing and Submission
10th	18	Viva and Discussion
	19	Determination of Flash point and fire point
11 th	20	Report writing and Submission
	21	Viva and Discussion
12 th	22	Revision
	23	Revision
13 th	24	Discussion
	25	Discussion

Signature of Concerned Teacher

HoD

**Department of
Mechanical Engineering**