

LESSON PLAN

DEPARTMENT OF MECHANICAL ENGINEERING, ITT, CHOUDWAR

SUBJECT: MECHANICAL ENGINEERING LABORATORY-I (PR-2) Periods:4 per week SEMESTER:3rd

NAME OF FACULTY: Manoranjan Sahoo, Instr (Mech) No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1 st	1 st	Determine end reactions in a simply supported beam using parallel force apparatus.
	2 nd	Determine end reactions in a simply supported beam using parallel force apparatus.
2 nd	1 st	Determine end reactions in a simply supported beam using parallel force apparatus.
	2 nd	Determination of Young's modulus using Searle's apparatus
3 rd	1 st	Determination of Young's modulus using Searle's apparatus
	2 nd	Determination of Young's modulus using Searle's apparatus
4 th	1 st	Determination of Young's modulus using Searle's apparatus
	2 nd	Determination of torsional rigidity of the shaft using torsion testing machine
5 th	1 st	Determination of torsional rigidity of the shaft using torsion testing machine
	2 nd	Determination of torsional rigidity of the shaft using torsion testing machine
6 th	1 st	Determination of torsional rigidity of the shaft using torsion testing machine
	2 nd	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
7 th	1 st	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
	2 nd	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
8 th	1 st	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
	2 nd	Determination of hardness number by Rockwell/Vickers hardness testing machine
9 th	1 st	Determination of hardness number by Rockwell/Vickers hardness testing machine
	2 nd	Determination of hardness number by Rockwell/Vickers hardness testing machine
10 th	1 st	Determination of toughness using Impact testing machine (Charpy/Izod)
	2 nd	Determination of toughness using Impact testing machine (Charpy/Izod)
11 th	1 st	Determination of toughness using Impact testing machine (Charpy/Izod)
	2 nd	Determination of toughness using Impact testing machine (Charpy/Izod)
12 th	1 st	Determination of Flash point and fire point
	2 nd	Determination of Flash point and fire point
13 th	1 st	Determination of Flash point and fire point
	2 nd	Determination of Flash point and fire point
14 th	1 st	Joule's experiment
	2 nd	Joule's experiment
15 th	1 st	Joule's experiment
	2 nd	Revision

Sign. of Faculty