

JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA

MECHANICAL ENGG. DEPARTMENT

Name of the Faculty: M. Sorcen  
S. Dwivedi, J. Bara

Session: 2022-23

Course code.: Pr 2

Course NAME - MECHANICAL ENGINEERING LABORATORY (PRACTICAL-2)

Programme: Diploma


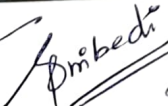

Department: Mechanical Engg. Deptt.

Semester: 3rd

Section: M1, M2

Branch: MECHANICAL ENGG

WEEK	Unit	Hours	Practicals to be Covered
1	Practical-1	4	Determine end reactions in a simply supported beam using parallel force apparatus
2	Practical-1	2	Determine end reactions in a simply supported beam using parallel force apparatus
	Practical-2	2	Determination of Young's modulus using Searle's apparatus
3	Practical-2	4	Determination of Young's modulus using Searle's apparatus
4	practical 3	4	Determination of torsional rigidity of the shaft using torsion testing machine
5	practical 3	2	Determination of torsional rigidity of the shaft using torsion testing machine
	practical 4	2	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
6	practical 4	4	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
7	practical 4	4	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
8	practical 4	2	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
	practical 5	2	Determination of hardness number by Rockwell/Vickers hardness testing machine
9	practical 6	4	Determination of hardness number by Rockwell/Vickers hardness testing machine
10	practical 6	4	Determination of toughness using Impact testing machine (Charpy/Izod)
11	practical 6	4	Determination of toughness using Impact testing machine (Charpy/Izod)
12	practical 6	4	Determination of toughness using Impact testing machine (Charpy/Izod)
13	practical 7	4	Determination of Flash point and fire point
14	practical 7	2	Determination of Flash point and fire point
	practical 8	2	Joule's experiment
15	practical 8	4	Joule's experiment



  
 Signature of the Faculty

  
 Signature of the HOD