



GOVERNMENT POLYTECHNIC, NABARANGAPUR
DEPARTMENT OF MECHANICAL ENGINEERING

Discipline: MECHANICAL ENGG	Semester: 3 rd	Name of the Teaching Faculty: DEEPAK RANJAN PATNAIK.
Subject: ME LAB-I	No. of days/per week class allotted: 4	Semester From date: 01.09.2020 To Date: 19.03.2021 No. of Weeks: 15
Week	Class Day	Theory/Practical Topics
1 ST	1-3	Determine end reaction in a simply supported beam using parallel force
	4-6	Determine end reaction in a simply supported beam using parallel force
2 ND	1-3	Determine end reaction in a simply supported beam using parallel force
	4-6	Determination of young's modulus using searles apparatus
3 RD	1-3	Determination of young's modulus using searles apparatus
	4-6	Determination of young's modulus using searles apparatus
4 TH	1-3	Determination of torsional rigidity of the shaft using torsion testing machine
	4-6	Determination of torsional rigidity of the shaft using torsion testing machine
5 TH	1-3	Determination of torsional rigidity of the shaft using torsion testing machine
	4-6	Determination of salient points (young's modulus, yield point, fracture point) from stress-strain curve using universal testing machine
6 TH	1-3	Determination of salient points (young's modulus, yield point, fracture point) from stress-strain curve using universal testing machine
	4-6	Determination of salient points (young's modulus, yield point, fracture point) from stress-strain curve using universal testing machine
7 TH	1-3	Determination of hardness number by Rockwell/Vickers hardness testing machine
	4-6	Determination of hardness number by Rockwell/Vickers hardness testing machine
8 TH	1-3	Determination of hardness number by Rockwell/Vickers hardness testing machine

	4-6	Determination of hardness number by Rockwell/Vickers hardness testing machine
9 TH	1-3	Determination of toughness using impact testing machine(charpy/lizod)
	4-6	Determination of toughness using impact testing machine(charpy/lizod)
10 TH	1-3	Determination of toughness using impact testing machine(charpy/lizod)
	4-6	Determination of flash point and fire point
11 TH	1-3	Determination of flash point and fire point
	4-6	Determination of flash point and fire point
12 TH	1-3	Determination of flash point and fire point
	4-6	Joules experiment
13 TH	1-3	Joules experiment
	4-6	Joules experiment
14 TH	1-3	Doubt clear lab class
	4-6	Doubt clear lab class
15 TH	1-3	Doubt clear lab class
	4-6	Doubt clear lab class



Sign.OfFaculty concerned



Sign.OfHOD/IC



Principal