



GOVERNMENT POLYTECHNIC, NABARANGAPUR
DEPARTMENT OF MECHANICAL ENGINEERING

Discipline:
MECHANICAL
ENGG

Semester:
3RD

Name of the Teaching Faculty:
DEEPAK RANJAN PATTNAYK
Semester From date: 15/09/2022 To Date: 21/01/2023

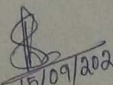
Subject: ME
LAB- I

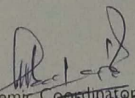
No. of
days/per
week
class
allotted: 4

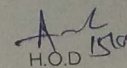
No. of Weeks: 13

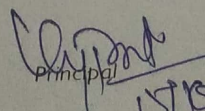
Week	Class/Day	Theory/Practical Topics
1 ST	1-2	Determination end reactions in a simply supported beam using parallel force apparatus
	3-4	Determination end reactions in a simply supported beam using parallel force apparatus
2 ND	1-2	Determination of young's modulus using Searles apparatus
	3-4	Determination of young's modulus using Searles apparatus
3 RD	1-2	Determination of Torsional rigidity of the shaft using torsion testing machine
	3-4	Determination of Torsional rigidity of the shaft using torsion testing machine
4 TH	1-2	Determination of Torsional rigidity of the shaft using torsion testing machine
	3-4	Determination of salient points (young's modulus ,yield point, fracture point) from stress strain curve using UTM
5 TH	1-2	Determination of salient points (young's modulus ,yield point, fracture point) from stress strain curve using UTM
	3-4	Determination of salient points (young's modulus ,yield point, fracture point) from stress strain curve using UTM
6 TH	1-2	Determination of hardness number by using Rockwell/Vickers hardness testing machine
	3-4	Determination of hardness number by using Rockwell/Vickers hardness testing machine
7 TH	1-2	Determination of hardness number by using Rockwell/Vickers hardness testing machine
	3-4	Determination of hardness number by using Rockwell/Vickers hardness testing machine
8 TH	1-2	Determination of toughness using impact testing machine (charpy I Izod)

	3-4	Determination of toughness using impact testing machine (charpy/lizod)
9 TH	1-2	Determination of toughness using impact testing machine (charpy/lizod)
	3-4	Determination of toughness using impact testing machine (charpy/lizod)
10 TH	1-2	Determination of flash point and fire point
	3-4	Determination of flash point and fire point
11 TH	1-2	Determination of flash point and fire point
	3-4	Determination of flash point and fire point
12 TH	1-2	Joules experiment
	3-4	Joules experiment
13 TH	1-2	Joules experiment
	3-4	Joules experiment


 15/09/2022
 Sign. Of Faculty concerned


 Academic Coordinator
 15/09/22


 H.O.D 15/09/2022


 Principal
 15/09/22