

GOVT. POLYTECHNIC, NAYAGARH

3RD SEMESTER MECHANICAL ENGG. (2022-23)

SUBJECT- MECHANICAL ENGG. LAB - I

FACULTY NAME – HIMANSHU PATRA (PTGF MECH.ENGG.)

12

SL NO.	Week	DAY	TOPICS TO BE COVERED
1.	1st	1st	Determine end reactions in a simply supported beam using parallel force apparatus.
		2nd	Determine end reactions in a simply supported beam using parallel force apparatus.
2.	2nd	1st	Determine end reactions in a simply supported beam using parallel force apparatus.
		2nd	Determine end reactions in a simply supported beam using parallel force apparatus.
3.	3rd	1st	Determination of Young's modulus using Searle's apparatus
		2nd	Determination of Young's modulus using Searle's apparatus
4.	4th	1st	Determination of Young's modulus using Searle's apparatus
		2nd	Determination of Young's modulus using Searle's apparatus
5.	5th	1st	Determination of torsional rigidity of the shaft using torsion testing machine
		2nd	Determination of torsional rigidity of the shaft using torsion testing machine
6.	6th	1st	Determination of torsional rigidity of the shaft using torsion testing machine
		2nd	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine

7.	7th	1st	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
		2nd	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
8.	8th	1st	Determination of salient points (Young's modulus, yield point, fracture point) from stress- strain curve using Universal Testing Machine
		2nd	Determination of hardness number by Rockwell/Vickers hardness testing machine
9.	9th	1st	Determination of hardness number by Rockwell/Vickers hardness testing machine
		2nd	Determination of hardness number by Rockwell/Vickers hardness testing machine
10.	10th	1st	Determination of hardness number by Rockwell/Vickers hardness testing machine
		2nd	Determination of toughness using Impact testing machine (Charpy/Izod)
11.	11th	1st	Determination of toughness using Impact testing machine (Charpy/Izod)
		2nd	Determination of toughness using Impact testing machine (Charpy/Izod)
12.	12th	1st	Determination of toughness using Impact testing machine (Charpy/Izod)
		2nd	Determination of Flash point and fire point
13.	13th	1st	Determination of Flash point and fire point
		2nd	Determination of Flash point and fire point
14.	14th	1st	Joule's experiment
		2nd	Joule's experiment
15.	15th	1st	Joule's experiment
		2nd	Joule's experiment

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12/10/2022

PTGF (Mech Engg)

MRS.

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