

GOVT. POLYTECHNIC, NAYAGARH

4TH SEMESTER MECHANICAL ENGINEERING (2022-23)

SUBJECTS – THEORY OF MACHINES AND MEASUREMENTS LAB (PR-1)
TOTAL PERIODS- 90

NAME OF FACULTY- Mr. PRAFULLA KUMAR MALLICK, PTGF (Mech Engg.)

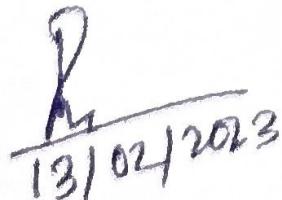
Mr. RAMYA RASHMI ROUT, PTGF (Mech Engg.)

PRACTICAL- 6P/WEEK

SL NO.	WEEK	DAY	TOPICS TO BE COVERED
1.	1 ST	1 ST	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
		2 ND	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
2.	2 ND	1 ST	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
		2 ND	Study & demonstration of static balancing apparatus
3.	3 RD	1 ST	Study & demonstration of static balancing apparatus
		2 ND	Study & demonstration of static balancing apparatus
4.	4 TH	1 ST	Study & demonstration of journal bearing apparatus.
		2 ND	Study & demonstration of journal bearing apparatus.
5.	5 TH	1 ST	Study & demonstration of journal bearing apparatus.
		2 ND	Study of different types of Cam and followers.
6.	6 TH	1 ST	Study of different types of Cam and followers.
		2 ND	Study of different types of Cam and followers.
7.	7 TH	1 ST	Study & demonstration of epicyclic gear train
		2 ND	Study & demonstration of epicyclic gear train
8.	8 TH	1 ST	Study & demonstration of epicyclic gear train

		2 ND	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.
9.	9 TH	1 ST	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.
		2 ND	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.
10.	10 TH	1 ST	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer
		2 ND	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer
11.	11 TH	1 ST	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer
		2 ND	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.
12.	12 TH	1 ST	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.
		2 ND	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.
13.	13 TH	1 ST	Determine the thickness of ground MS plates using slip gauges.
		2 ND	Determine the thickness of ground MS plates using slip gauges.
14.	14 TH	1 ST	Determine the thickness of ground MS plates using slip gauges.
		2 ND	Determination of angel of Machined surfaces of components using sin bar with slip gauges.
15.	15 TH	1 ST	Determination of angel of Machined surfaces of components using sin bar with slip gauges.
		2 ND	Determination of angel of Machined surfaces of components using sin bar with slip gauges.

Prafulla Kumar Mallik
Lect. Mech. (PTGF)


13/02/2023

Ramya Rashmi Raval
13/02/2023
Lect. Mech. (PTGF)