GOVT. POLYTECHNIC ,NAYAGARH

4TH SEMESTER MECHANICAL ENGNEERING (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.	1ST	1ST	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
		2ND	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
2.	2ND	1ST	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
		2ND	Study & demonstration of static balancing apparatus
3.	3RD	1ST	Study & demonstration of static balancing apparatus
		2ND	Study & demonstration of static balancing apparatus
4.	4TH	1ST	Study & demonstration of journal bearing apparatus.
		2ND	Study & demonstration of journal bearing apparatus.
5.	5TH	1ST	Study & demonstration of journal bearing apparatus.
		2ND	Study of different types of Cam and followers.
6.	6TH	1ST	Study of different types of Cam and followers.
		2ND	Study of different types of Cam and followers.
7.	7TH	1ST	Study & demonstration of epicyclic gear train
		2ND	Study & demonstration of epicyclic gear train
8.	8TH	1ST	Study & demonstration of epicyclic gear train

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

Prafulla Kumar Mallick
Lect. Mech. (PTGF)
13/02/2023

Ramya Lashmi Raul
13/02/2023
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