

LESSON PLAN
GOVT. POLYTECHNIC, NAYAGARH
DEPARTMENT OF MECHANICAL ENGINEERING

(w.e.f 04/02/2025)

SUBJECT: Pr.1 Theory of Machine and Measurement Lab

Periods:6 per week

SEMESTER:4th

NAME OF FACULTY: RAMYA RASHMI ROUT, LECT.(GF)

No. of weeks: 15

Week	Class Day	Theory / Practical Topics
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).
2nd	1st	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
	2nd	Study & demonstration of static balancing apparatus.
3rd	1st	Study & demonstration of static balancing apparatus.
	2nd	Study & demonstration of static balancing apparatus.
4th	1st	Study & demonstration of journal bearing apparatus.
	2nd	Study & demonstration of journal bearing apparatus.
5th	1st	Study & demonstration of journal bearing apparatus.
	2nd	Study of different types of Cam and followers.
6th	1st	Study of different types of Cam and followers.
	2nd	Study of different types of Cam and followers.
7th	1st	Study & demonstration of epicyclic gear train.
	2nd	Study & demonstration of epicyclic gear train.
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.
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.
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.
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.
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.
13th	1st	Determine the thickness of ground MS plates using slip gauges.
	2nd	Determine the thickness of ground MS plates using slip gauges.
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
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

Ramya Rashmi Rout.
 Lect. (GF)
 03/02/2025