

**LESSON PLAN**  
**GOVT. POLYTECHNIC, NAYAGARH**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

(w.e.f 16/01/2024)

**SUBJECT: Pr.1 Theory of Machine and Measurement Lab**

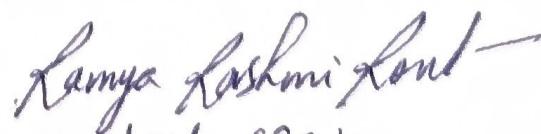
**Periods: 6 per week**

**SEMESTER: 4<sup>th</sup>**

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

**No. of weeks: 15**

<b>Week</b>	<b>Class Day</b>	<b>Theory / Practical Topics</b>
1st	1st	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
	2 <sup>nd</sup>	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
2 <sup>nd</sup>	1st	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).
	2 <sup>nd</sup>	Study & demonstration of static balancing apparatus.
3 <sup>rd</sup>	1st	Study & demonstration of static balancing apparatus.
	2 <sup>nd</sup>	Study & demonstration of static balancing apparatus.
4 <sup>th</sup>	1st	Study & demonstration of journal bearing apparatus.
	2 <sup>nd</sup>	Study & demonstration of journal bearing apparatus.
5 <sup>th</sup>	1st	Study & demonstration of journal bearing apparatus.
	2 <sup>nd</sup>	Study of different types of Cam and followers.
6 <sup>th</sup>	1st	Study of different types of Cam and followers.
	2 <sup>nd</sup>	Study of different types of Cam and followers.
7th	1st	Study & demonstration of epicyclic gear train.
	2 <sup>nd</sup>	Study & demonstration of epicyclic gear train.
8th	1st	Study & demonstration of epicyclic gear train.
	2 <sup>nd</sup>	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.
	2 <sup>nd</sup>	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.
	2 <sup>nd</sup>	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.
	2 <sup>nd</sup>	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.
	2 <sup>nd</sup>	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.
	2 <sup>nd</sup>	Determine the thickness of ground MS plates using slip gauges.
14th	1st	Determine the thickness of ground MS plates using slip gauges.
	2 <sup>nd</sup>	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
	2 <sup>nd</sup>	Determination of angel of Machined surfaces of components using sin bar with slip gauges

  
 Ramya Rashmi Rout  
 Lect. (GF)  
 Dt - 15/01/24