

# LESSON PLAN

DEPARTMENT OF MECHANICAL ENGINEERING, ITT, CHOUDWAR

SUBJECT: Pr.1 Theory of Machine and Measurement lab Periods:6 per week SEMESTER:4<sup>th</sup>

NAME OF FACULTY: Manoranjan Sahoo, Instructor(Mech)

No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1 <sup>st</sup>	1 <sup>st</sup>	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>	1 <sup>st</sup>	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>	1 <sup>st</sup>	Study & demonstration of static balancing apparatus.
	2 <sup>nd</sup>	Study & demonstration of static balancing apparatus.
4 <sup>th</sup>	1 <sup>st</sup>	Study & demonstration of journal bearing apparatus.
	2 <sup>nd</sup>	Study & demonstration of journal bearing apparatus.
5 <sup>th</sup>	1 <sup>st</sup>	Study & demonstration of journal bearing apparatus.
	2 <sup>nd</sup>	Study of different types of Cam and followers.
6 <sup>th</sup>	1 <sup>st</sup>	Study of different types of Cam and followers.
	2 <sup>nd</sup>	Study of different types of Cam and followers.
7 <sup>th</sup>	1 <sup>st</sup>	Study & demonstration of epicyclic gear train.
	2 <sup>nd</sup>	Study & demonstration of epicyclic gear train.
8 <sup>th</sup>	1 <sup>st</sup>	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.
9 <sup>th</sup>	1 <sup>st</sup>	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.
10 <sup>th</sup>	1 <sup>st</sup>	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.
11 <sup>th</sup>	1 <sup>st</sup>	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.
12 <sup>th</sup>	1 <sup>st</sup>	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.
13 <sup>th</sup>	1 <sup>st</sup>	Determine the thickness of ground MS plates using slip gauges.
	2 <sup>nd</sup>	Determine the thickness of ground MS plates using slip gauges.
14 <sup>th</sup>	1 <sup>st</sup>	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
15 <sup>th</sup>	1 <sup>st</sup>	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



Sign. of Faculty