

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: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)
 Dt-15/01/24