## GOVERNMENT POLYTECHNIC, MALKANGIRI DEPARTMENT OF MECHANICAL ENGINEERING

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Discipline: Mechanical Engineering	Semester:	Name of the Teaching Faculty: Shantanu Kumar Maity
Subject:	arren di sangi	24 tota 201 harring to a control on a control of the
Theory of Machines & Measurements	No. of Class/ days/week class allotted	Semester From date: 04.02.2025 To date:17.05.2025 No. of Week: 15
Lab	204	Defermination of James of Machinette
Course Outcomes	CO1: Analyzing	centrifugal forces,
	CO2: Understa	nding static balancing, journal bearing and equipment usage
	CO3: Demonstr	rating CAM and Followers, epicycle gear train
		g measurement using Callipers, Micrometer and Gauges
Week	Class Day	Theory/Practical Topics
1st	2 Classes/Da 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 epicycle gear train
	2nd	Study & demonstration of epicycle gear train
8th	1st	Study & demonstration of epicycle gear train
	2nd	Determination of the thickness of ground M.S flat to an accuracy of 0.2mm using Vernier Caliper
9th	1st	Determination of the thickness of ground M.S flat to an accuracy of 0.2mm using Vernier Caliper
	2nd	Determination of the thickness of ground M.S flat to an accuracy of 0.2mm using Vernier Caliper
10th	1st	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micromenter
	2nd	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micromenter

11th	1st A	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micromenter
	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 Tam	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	and 1st hor	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.

## Learning Resources:

Text Book of Theory of machines (S.Chand) R.S. Khurmi Text Book of Theory of machines (S.Chand) R.K Rajput

P.L. Ballany Text Book of Theory of machines (Dhanpat rai)

Shantany Kuman Marty Signature of HOD

Signature of Faculty

Study & demonstration of journal bearing apparatus

Signature of Academic Coopel nator

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