



GOVERNMENT POLYTECHNIC,  
NABARANGPUR, DEPARTMENT OF  
MECHANICAL ENGINEERING

Discipline: <b>MECHANICAL LENGG</b>	Semester: 4TH	Name of the Teaching Faculty: Deepak Ranjan Pathnaik
Subject: <b>THEORY OF MACHINE LAB</b>	No. of days/per week class allotted: 6	Semester From date: 15.04.2021 To Date: 15.08.2021  No. of Weeks: 15
Week	Class Day	Theory/Practical Topics
1ST	1-3	Determination of centrifugal force of a governor
	4-6	Determination of centrifugal force of a governor
2ND	1-3	Determination of centrifugal force of a governor
	4-6	Study & demonstration of static balancing apparatus
3RD	1-3	Study & demonstration of static balancing apparatus
	4-6	Study & demonstration of static balancing apparatus
4TH	1-3	Study & demonstration of journal bearing apparatus
	4-6	Study & demonstration of journal bearing apparatus
5TH	1-3	Study & demonstration of journal bearing apparatus
	4-6	Study of different types of cam & follower
6TH	1-3	Study of different types of cam & follower
	4-6	Study of different types of cam & follower



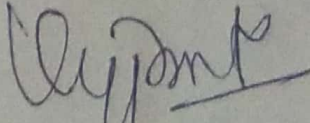
7 <sup>TH</sup>	1-3	<i>Study &amp; demonstration of epicyclic gear train</i>
	4-6	<i>Study &amp; demonstration of epicyclic gear train</i>
8 <sup>TH</sup>	1-3	<i>Study &amp; demonstration of epicyclic gear train</i>

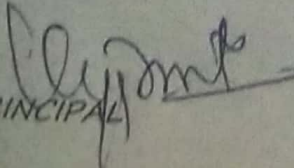
	4-6	<i>Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier caliper</i>
9 <sup>TH</sup>	1-3	<i>Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier caliper</i>



	4-6	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier caliper
10 <sup>T</sup> H	1-3	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer
	4-6	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer
11 <sup>T</sup> H	1-3	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer
	4-6	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge
12 <sup>T</sup> H	1-3	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge
	4-6	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge
13 <sup>T</sup> H	1-3	Determine the thickness of ground MS plates using slip gauges
	4-6	Determine the thickness of ground MS plates using slip gauges
14 <sup>T</sup> H	1-3	Determine the thickness of ground MS plates using slip gauges
	4-6	Determination of angel of Machined surfaces of components using sin bar with slip gauges.
15 <sup>T</sup> H	1-3	Determination of angel of Machined surfaces of components using sin bar with slip gauges.
	4-6	Determination of angel of Machined surfaces of components using sin bar with slip gauges.

Deepak Ranjan pathnaik  
Sign. Of  
Faculty  
concerned

  
Sign. Of HOD  
I/C

  
PRINCIPAL