

THEORY OF MACHINES & MEASUREMENTS LAB (PR-1)

Date of Commencement of classes: 14.03.2022

Date of Closing of classes: 11.06.2022

LIST OF MONTH WISE AVAILABLE WEEKS

Sl. No.	Month	Week-wise no. of academic days available					Total no. of academic days
		Week- 1	Week- 2	Week- 3	Week- 4	Week- 5	
1	March	--	--	4	6	3	13
2	April	2	5	4	4	6	21
3	May	5	4	4	5	2	20
4	June	4-1	6	--	--	--	09
Total		10	15	12	15	11	63

NO. OF AVAILABLE CLASSES PER WEEK/ MONTH

Sl. No.	Month	Week-wise no. of Lab Classes available					Total no. of Lab Classes
		Week- 1	Week- 2	Week- 3	Week- 4	Week- 5	
1	March	--	--	1	1	1	03
2	April	1	1	1	1	1	05
3	May	1	1	1	1	1	05
4	June	1	1	--	--	--	02
Total		3	3	3	3	3	15

EXPERIMENT-WISE DISTRIBUTION OF PERIODS

Sl. No.	Name of the Experiment	Required no. of Lab Classes	Expected Marks
01	Determination of the thickness of the ground MS flat to an accuracy of 0.02mm using Vernier Caliper.	2	2.5
02	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer.	2	2.5
03	Determination of heights of gauge blocks/ parallel bars to an accuracy of 0.02mm using Vernier height gauge.	2	2.5
04	Determination of thickness of ground MS plates using slip gauges.	1	2.5
05	Determination of angle of machined surfaces of components using sine bar with slip gauges.	1	2.5
06	Determination of centrifugal force of a governor.	1	2.5
07	Study and demonstration of static balancing apparatus.	2	2.5
08	Study and demonstration of journal bearing apparatus.	1	2.5
09	Study of different types of cams and follower.	1	2.5
10	Study and demonstration of epi-cyclic gear train.	1	2.5
TOTAL		14	25

Sign of Lab I/C

Sign of HOD

Sign of AIC

Sign of Vice Principal

LESSON PLAN

Name of the Month	Week No.	Class day	Details of Practical Topics
M A R C H	3 rd	1 st	Determination of the thickness of the ground MS flat to an accuracy of 0.02mm using Vernier Caliper.
	4 th	1 st	
	5 th	1 st	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer.
A P R I L	1 st	1 st	Determination of heights of gauge blocks/ parallel bars to an accuracy of 0.02mm using Vernier height gauge.
	2 nd	1 st	
	3 rd	1 st	
	4 th	1 st	Determination of thickness of ground MS plates using slip gauges.
	5 th	1 st	Determination of angle of machined surfaces of components using sine bar with slip gauges.
M A Y	1 st	1 st	Determination of centrifugal force of a governor.
	2 nd	1 st	Study and demonstration of static balancing apparatus.
	3 rd	1 st	
	4 th	1 st	Study and demonstration of journal bearing apparatus.
	5 th	1 st	Study of different types of cams and follower.
J U N E	1 st	1 st	Study and demonstration of epi-cyclic gear train.
	2 nd	1 st	Practice