

**DEPARTMENT OF MECHANICAL ENGINEERING**

NAME OF THE LAB : METROLOGY AND DYNAMICS LABORATORY

LOCATION : SF-324

AREA : 135.27 (sq.m)

FACULTY INCHARGE : Dr. S Saravanan / Mr.Vinoth kumar KK

LAB INSTRUCTOR : Mr. Rangaraj Y R

TOTAL COST OF THE EQUIPMENT : RS 7,08,464

SNO	NAME OF THE EQUIPMENT	QUANTITY
1	Micrometer	5 Nos.
2	Vernier Caliper	5 Nos.
3	Vernier Height Gauge	2 Nos.
4	Vernier depth Gauge	2 Nos.
5	Slip Gauge Set	1 No.
6	Gear Tooth Vernier	1 No.
7	Sine Bar	2 No.
8	Floating Carriage Micrometer	1 No.
9	Profile Projector	1 No.
10	Bore Gauge	1 No.
11	Telescopic Gauge	1 No.
12	Tool Makers Microscope	1 No.
13	Tubular Inside Micrometer	1 No.
14	Mechanical / Electrical / Pneumatic Comparator	1 No.
15	Autocollimator	1 No.
16	Temperature Measuring Setup	1 No.
17	Force Measuring Setup	1 No.



18	Torque Measuring Setup	1 No.
19	Displacement Measuring Setup	1 No.
20	Motorised gyroscope.	1 No.
21	Governor apparatus - Watt, Porter, Proell and Hartnell governors.	1 No.
22	Whirling of shaft apparatus.	1 No.
23	Dynamic balancing machine.	1 No.
24	Two rotor vibration setup.	1 No.
25	Spring mass vibration system.	1 No.
26	Torsional Vibration of single rotor system setup.	1 No.
27	Cantilever Vibration setup.	1 No.
28	Gear Models	1 No.
29	Kinematic Models to study various mechanisms.	1 No.
30	Turn table apparatus.	1 No.
31	Transverse vibration setup of a) cantilever	1 No.
32	Compound pendulum	1 No.