

KME751 Measurement & Metrology Lab
LIST OF EXPERIMENTS

1. Measurement of effective diameter of a screw thread using 3 wire method.
2. Measurement of angle using sine bar & slip gauges.
3. Study of limit gauges.
4. Study & angular measurement using Bevel protector.
5. Study of different types of Comparators.
6. Study of important parameters of surface finish.
7. Study of principle and operation of coordinate-measuring machine (CMM).
8. Use of dial indicator and V Block to check the circularity and plot the polar Graph.
9. Study and understanding of limits, fits & tolerances in assembly of machine components.
10. Study and understanding of different methods of measurement of pressure.
11. Study and understanding of different methods of measurement of temperature.
12. Study and understanding of measurement of strain using strain gauges.
13. Study and understanding of different methods of measurement of flow.
14. Study and understanding of different methods of measurement of vibration/power.
15. Study and understanding of measurement of displacement using LVDT.

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LIST OF EQUIPMENTS

S.No	Equipment Name
1	Dial Gauge With Magnetic Base
2	Slip Gauge Set
3	Vernier Caliper
4	Vernier Caliper 6"
5	Sine Bar 6"
6	Feeler Gauge
7	Tachometer
8	Radius Gauge
9	Thread Gauge
10	Surface Plate
11	Ring Gauge 25mm
12	Plug Gauge
13	Thread Plug Gauge
14	Bench Center
15	Micro Meter Stand
16	Micrometer (0-25)
17	Micrometer (25-50)
18	Micrometer Inside (50-250)
19	Spirit Level 12"
20	Cylindrical Pins
21	V' Block Set
22	Combination Set
23	Surface Roughness Measurement Set Up
24	Gera Tooth Vernier Caliper
25	Displacement Measurement Using LVDT
26	Load Measurement Using Load Cell
27	Pressure Measurement Transducer
28	Metallurgical Microscopes Rxm-7
29	Dead Center
30	Speed Measurement Application Comparator Type
31	Pressure Measurement Apparatus
32	Temperature Measurement Apparatus
33	Stroboscope
34	Profile Projector
35	Strain Gauge Apparatus