**WELLFARE INSITUITE OF SCIENCE TECHNOLOGY & MANAGEMENT**

DEPARTMENT OF MECHANICAL ENGINEERING

MECHANICAL ENGINEERING LAB

LIST OF EXPERIMENTS

1. Various parameter measurements on a product using measuring instruments and gauges (Engine Block, Piston)

2. Taper angle measurements using Sine bar and Sine center

3. Calibration of Measuring Instruments (Micrometer, Vernier Caliper, Vernier Height gauge and Dial gauge)

4. Indirect method of measurement (i) V –block angle and width measurement (ii) Measurement of bore diameter using two balls method

5. Various parameter measurement using computerized profile projector

6. Circularity measurement using Electronic and Mechanical comparator

7. Thread parameter measurement using floating carriage micrometer

8. Gear tooth measurement using Gear tooth Vernier and Parkinson Gear Tester

9. Surface topology measurement using Surface Roughness Tester

10. Surface defects and profile measurement using Vision measurement system