



NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA
DEPARTMENT OF MECHANICAL ENGINEERING
METROLOGY & INSTRUMENTATION LABORATORY

List of experiments perform:

- 1) Measurement of length and diameter of prepared samples using vernier calliper, dial calliper and digital calliper.
- 2) Blind hole depth measurement of prepared specimens using vernier depth gauge and measurement of height of the sample using vernier height gauge.
- 3) Measurement of angle in specimens using the combination set and bevel protractor.
- 4) Measurement of bore diameter using inside micrometer.
- 5) Measurement of width and depth of a groove of the given sample using groove micrometer and checking the flatness of granite surface plate.
- 6) Calibration of micrometer and vernier calliper using slip gauges and measurement of diameter and height of a given sample using Micrometer.
- 7) Measurement of force by using load cell.
- 8) Measurement of temperature by using thermocouple(S-type, K-type).
- 9) Measurement of position by using linear variable differential transformer (LVDT).
- 10) Measurement of flow rate by using flow meter.
- 11) Measurement of torque by using torque sensor.