

ENGINEERING METROLOGY LAB

B.Tech. III Year I Sem.
Course Code: ME507PC

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Objectives:

- To impart practical exposure to the metrology equipment
- To conduct experiments and understand the working of the same.

Prerequisites: Theoretical exposure to Metrology and machine tools.

1. Use of gear teeth vernier calipers for checking the chordal addendum and chordal height of the spur gear.
2. Machine tool alignment of test on the lathe.
3. Tool makers microscope and its application
4. Angle and taper measurements by bevel protractor and sine bars.
5. Use of spirit level and optical flats in finding the flatness of surface plate.
6. Thread measurement by 2-wire and 3-wire methods.