Diploma, Anna Univ UG & PG Courses

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RO8511 CNC AND METROLOGY LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To impart knowledge in CNC programming for turning and milling operations
- To use measuring systems for the geometrical measurements of gears and threads.
- · To know the measurement of Taper Angle using Sine Bar

LIST OF EXPERIMENTS:

- 1. Study of the CNC machine
- 2. Programming and simulation of a lathe using any CAM package
- 3. Programming and simulation of a machining centre using any CAM package
- 4. Programming and operation of a CNC Lathe
- 5. Programming and operation of a CNC machining centre
- 6. Measurement of Taper Angle using Sine Bar
- 7. Optical profile projector study of profile of gear tooth, screw threads.
- 8. Tool maker's microscope to study cutting tool geometry, screw threads.
- 9. Tool wear and surface finish measurement.
- 10. Dimensional measurement of machined components using, bore gauge, air gauge and Height master