Diploma, Anna University-UG, PG., HSC & SSLC

Notes Syllabus Question Papers Results and Many more... Available @

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MF5111 CAD / CAM LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To teach the students about the drafting of 3D components and analyzing the same using various CAD packages and programming of CNC machines
- To train them to use the various sensors

CAM LABORATORY

- Exercise on CNC Lathe: Plain Turning, Step turning, Taper turning, Threading, Grooving canned cycle
- Exercise on CNC Milling Machine: Profile Milling, Mirroring, Scaling & canned cycle. Study of Sensors, Transducers & PLC: Hall-effect sensor, Pressure sensors, Strain gauge, PLC, LVDT, Load cell, Angular potentiometer, Torque, Temperature & Optical Transducers.

CAD LABORATORY

2D modeling and 3D modeling of components such as

- 1. Bearing
- 2. Couplings
- 3. Gears
- 4. Sheet metal components
- 5. Jigs, Fixtures and Die assemblies.