IV Year I Semester

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MT 445   COMPUTER AIDED MACHINING LAB

Course Description & Objectives:

To familiarize students with computer aided machining through programming for mass and accurate production and their applications to various engineering and science disciplines

Course Outcomes:

At the end of the course, the student would be able to describe the principles of CAM systems as well as would be able to generate the G-code using the CAM system and the embedded post-processor

List of Experiments:

1. Write and execute manual part program using ISO codes for machining of simple machine parts.

2. Write and execute part Program using G codes & M codes for Turning & Taper turning.

3. Write and execute part Program using G codes & M codes for Thread cutting operation.

4. Part programming using canned cycle for various machining operations.

5. Writing a part program (In word address & in APT) for a job for drilling operation (point to point) and running on NC machine

6. Simulation of various machining operations using CAM packages.

7. Experiment on Study of various sensors used in factory.

8. Study & Experiment on measuring capabilities of CMM.