



Department of Mechanical Engineering
Automation in Production
VIII Sem.
Sub – Automation in Production

Course Outcome

1. To understand the basics of industrial automation.
2. To work on part programming languages used in CNC.
3. To develop programs for simple robot applications.
4. To design automated storage and retrieval systems
5. To implement GT, CAPP and FMS concepts in manufacturing.
6. To use various quality inspection techniques including machine vision and CMM.

List of Experiments

Expt. No	Name of the experiment	Course Outcome mapping
1	Case study on automated system of any industry.	CO1, CO2
2	Practice programming on manual part program.	CO2
3	Practice programming on APT.	CO2
4	Demonstration on robot.	CO1, CO2, CO3
5	Performance on robot.	CO1, CO2, CO3
6	Demonstration on CNC lathe.	CO1, CO2
7	Performance on CNC lathe.	CO1, CO2
8	Performance and simulation with CNC lathe software.	CO1, CO2
9	Demonstration on CNC milling.	CO1, CO2
10	Performance on CNC milling.	CO1, CO2
11	Performance and simulation with CNC milling software.	CO1, CO2
12	Case study on computer aided process planning	CO1, CO4
13	Case study on part coding and group technology	CO1, CO5
14	Case study on computer aided quality control	CO1, CO4, CO6
15	Case study on flexible manufacturing system	CO2, CO5
16	Open Ended Experiment on FFT Analyzer	

Ghrce Lab Manual

Anthony S. Fauci



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