

Computer Aided Manufacturing (2171903)

Assignment-2

1. Why is part classification and coding required in GT. Explain OPTIZ system of coding.
2. What is Production Flow Analysis in GT? Explain with suitable example.
3. Explain the variant type CAPP system. State the benefits and limitations of variant type CAPP systems.
4. Write short note on Automatic Storage and Retrieval Systems and their applications areas in FMS.
5. What is Automated Guided Vehicles? Explain different types of AGVs with their advantages and limitations.
6. What are the different types of drives used in robots?
7. What is FMS? Explain the basic components of FMS.
8. Explain with neat sketch the various types of layouts used in FMS design and their applications.
9. Differentiate between a SCARA and a gantry robot.
10. Classify and explain Robots.
11. Define robot and explain different joints used in robots.
12. Write short notes on: (i) Robot sensors & (ii) End-effectors in robots.
13. Explain how robot is programmed? Explain different programming methods.
14. Explain robot configurations with neat sketches.

Note: Assignment-2 to be submitted on or before Dt. 10/10/2019

Subject coordinator:

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