

CC 5001 Computer Control in Process Planning

Important 13 Marks Questions

Unit I

1. Discuss the importance of concurrent engineering in product development.
2. Discuss why GT is important in achieving CAD CAM integration with a suitable example.
3. Discuss in detail the process planning activities.
4. Explain the technological framework of process planning by using a block diagram.
5. Discuss the importance of group technology for CAD and CAM integration.

Unit II

1. Explain the following with suitable example:
 - (i) Geometric transformation.
 - (ii) Perspective transformation.
2. Discuss the OPITZ classification system used in GT with suitable examples.
3. Discuss in details the computer aided design process with the help of a block diagram.
4. Illustrate with suitable example the application of CSG in manufacturing chain.
5. Describe the general configuration of a CAD computer system.

Unit III

1. Describe the generative approach used in CAPP with a suitable example.
2. Discuss the decision table and decision tree used in process planning with a suitable example.
3. Describe the various approaches to process capability analysis.
4. Explain the steps involved in generation of route sheet using generative approach CAPP.
5. Explain forward and backward planning with suitable example.

Unit IV

1. Describe the procedural steps used in logical design of a process planning with a suitable example.
2. Discuss the following with examples.
 - (i) MIPLAN
 - (ii) APPAS
3. Illustrate the importance of implementation consideration in process planning.
4. Explain manufacturing system components in CAPP with suitable example.
5. Discuss the importance and applications of CAPP.

Unit V

1. Discuss the totally integrated planning system with a suitable example.
2. Explain about expert process planning system with a suitable example.
3. Explain in detail the process planning activities.

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Notes

Syllabus

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4. Explain the importance of report generation with suitable example.
5. Illustrate the importance of integrated process planning systems in manufacturing chain.