TERM-VI

PROGRAMM- MECHANICAL ENGINEERING

COURSE- CAD CAM QUESTION BANK **(SF)**

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CAD CAM QUESTION BANK

UNIT -1

1. Explain shigleys design process with neat sketch
2. Explain oshuga modal
3. Explain surface modeling with neat sketch and its types
4. Explain solid modeling with neat sketch
5. Explain wire frame modeling with neat sketch
6. Explain boundary representation (B-rep)
7. Explain briefly the construction of solid geometry (CSG)
8. Explain in detail IGES
9. Explain in detail open GL
10. Explain in detail GKS
11. Explain basic steps in finite element analysis

UNIT-2

1. Explain OPTIZ and MICLASS coding system
2. Explain with neat sketch retrieval CAPP and generative CAPP system
3. Explain with neat sketch Master Production Schedule
4. Explain with neat sketch MRP
5. Explain with neat sketch MRP II
6. Explain with neat sketch shop floor control
7. Explain JIT philosophy
8. Explain ERP

UNIT-3

1. Describe the programming procedure for CNC machine
2. Explain the structure of part program
3. Explain the coordinate system in CNC machine
4. Explain G code M code for CNC machine
5. Explain with neat sketch stereo lithography
6. Explain with neat sketch 3D printing

7. Explain with neat sketch FDM
8. Explain with neat sketch SLS
9. Explain rapid tooling with neat sketch

UNIT-4

1. Explain CIM wheel with neat sketch
2. Explain with neat sketch the types of FMS layout
3. Explain with neat sketch the types of FMS
4. Explain the working principle of AGV with neat sketch
5. Explain the types of AGV with neat sketch
6. Explain robot configuration
7. Explain basic robotic motion
8. Explain robotic sensors
9. Explain in detail industrial applications of robot
10. Explain with neat sketch mechanical grippers and vacuum grippers
11. Explain the robot programming method/integrated Cad /Cam

UNIT-5

1. Explain in detail House Of Quality
2. Difference between concurrent engineering and sequencing engineering
3. Explain the steps in failure mode effective analysis
4. Explain with neat sketch value engineering. Explain types of values
5. Explain in detail the guidance of design for manufacturing/analysis (DFMA)
6. Explain in detail product life cycle/product development cycle
7. Explain in detail (AR)
8. Explain in detail identification of poor value area
9. Explain the techniques of value engineering
10. Explain in detail sequential engineering (or) concurrent engineering