

**DEPARTMENT OF MECHANICAL ENGINEERING
GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY
HISAR-125001**

Short Term Course on CAD/CAM

Course Coordinator: Dr. Pankaj Khatak, Associate Professor
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Course Objectives

1. Impart knowledge of computer aided design and manufacturing (CAD/CAM) techniques.
2. Develop programming and operating skills for computer numerical control (CNC) machines.
3. Enable students understand various stages of product development and their management.

Course Outcomes

1. To create part drawings and 3D models using CAD techniques.
2. Generation of part programs for industrial components using CAM techniques.
3. Skills to program and operate CNC machines.
4. Ability to develop a product from conceptualization to reality.

Salient Features of the Course

1. Focus towards practical implementation of classroom teachings.
2. In-house work experience based on industrial CNC machines.
3. Practical training by well-qualified tutors.
4. Continuous evaluation during the course.
5. Individual projects from design to production.

CAD/CAM Employment Types

- Mechanical Designer
- Manufacturing Engineering
- Architectural Designer
- Civil Engineer
- Production Engineer
- Academics

Fees: Rs. 5000/-

Duration: 60 Hrs.

Minimum Eligibility: B.Tech. (3rd year/4th year/passed)

Registration:

Registration form is available in the office (Room No. 107) of Mech. Engg. Deptt. G.J.U.S&T, Hisar. The third page of this document can also be used as Registration form. The Registration form (in print) is to be submitted before due date in the office of department. The scanned copies of the filled registration forms can also be sent to email: pankajkhatak@gmail.com.

Last date for Registration: **19.09.2018**

Proposed date for start of course: **22.09.2018**

Course Syllabus

Computer Aided Design (CAD)

Overview of Two-dimensional (2D) Drawings, Work Area Customization, Constraints and Parameters, Sketching of Geometrical Shapes, Editing Tools, Converting 2D drawings to Three-dimensional (3D) Models, Modeling Features and Tools, Dimensioning and Annotations.

Computer Aided Manufacturing (CAM)

Overview of Machining Processes, Work Setup, Cutting Tool Selection, Calculation of Feeds and Speeds, Importing CAD Models, CAM Cycles, Cutting Planes Selection, Toolpath Setup, Post-processing of Cutter Location (CL) Data.

Computer Numerical Control (CNC)

Overview of CNC Machines, Components Identification, Safety Features and Precautions, Setting Home Position, Offsets and Work Settings, Part Programming with G-codes, Program Proving with Graphical Simulation, Program Execution.

Product Development

Overview of Product Life Cycle, Product Design for Manufacture and Assembly, Material Selection, Selection of Machining Process, Product Management, Manufacturing cost, Project Work.

Registration Form
SHORT TERM COURSE
on
CAD/CAM

For office use only
Student ID: _____
Entered by: _____
Date: _____

DEPARTMENT OF MECHANICAL ENGINEERING
GURU JAMBHESHWAR UNIVERSITY OF SCIENCE AND
TECHNOLOGY, HISAR

1. Full Name: _____
2. Email: _____@_____
3. Mobile Number: _____
4. Institute: _____
5. Present Education:
B.Tech: _____ (Fill 1st, 2nd, 3rd, 4th year or passed)
M.Tech: _____ (Fill 1st or 2nd year or passed)
PhD: _____ (Pursuing/Passed)
6. Address for communication:

7. Emergency Contact: _____ (Phone number of parents/guardians)

Declaration: The information provided above are true to the best of my knowledge. I have taken permission for this course from my parents/guardians and will pay the course fees, before due date if selected.

For office use only
Checked By: _____
Date: _____

Signature of participant

Date: _____

Attach Your Photo here
