SUMMER TRAINING - 2021

COURSE: Auto CAD Training

OBJECTIVE OF THE COURSE

The objective of this course is to teach users the basic commands and tools necessary for professional 2D drawing, design and drafting using AutoCAD / AutoCAD LT. After completing this course users will be able to:

- o Use AutoCAD for daily working process.
- o Navigate throughout AutoCAD using major navigating tools.
- o Understand the concept and techniques to draw.
- o Create multiple designs using several of tools.
- o Create layers to control the objects' visibility.
- o Explain drawing using annotations.
- o Plot or print the drawing by scale.
- o To use constraint for certain design.

DURATION OF THE COURSE: 60 HOURS (4 WEEKS)

MINIMUM ELIGIBILITY CRITERIA AND PRE-REQUISITE:
BASIC KNOWLEDEGE OF COMPUTER

- **Module 1: AutoCAD Basicsand 2D Drafting (Week 1 – 16 hours):**

    - o Overview of Engineering Drawing and Computer Aided Drawing
    - o Introduction to AutoCAD Workspace and coordinate systems
    - o Introduction to Draw toolbar e.g. Line, Circle, Arc, Ellipse etc. and its applications
    - o Introduction to Modify toolbar e.g. Copy, Move, Offset etc. and its applications

- **Module 2: Advanced Drafting (Week 2 - 14 hours):**

    - o Introduction to Dimensioning and Annotation
    - o Introduction to Advance Drawing tools e.g. Layers, Hatching, Blocks etc.
    - o Introduction to Plan, Elevation, Section view, Perspective Viewetc,

- **Module 3: Introduction to 3D Surface Modeling (Week 3 – 16 hours):**

    - o Introduction to 3D Workspace and its customization
    - o Viewing techniques in 3D
    - o Working with Surfaces
    - o Creating and modifying regions, 3D polyline etc.

- **Module 4: 3D Modeling, Visualization and Publishing(Week 4 – 14 hours):**

    - o Solid modelling techniques e.g.Extrude, Loft, Sweep, Revolve
    - o 3D Modify Commandse.g.3D Move, 3D Rotate, 3D Align, 3D Mirror and Array etc.
    - o Editing Solids: BooleansOperations, Using grips to edit solids, Filleting and chamfering etc.,
    - o Publishing Drawings, Page Setup, Print, Plot, Publish