AutoCAD Course Contents

Course Duration: One Month

1. Introduction to AutoCAD

- What is AutoCAD?
- Overview of AutoCAD interface
- Understanding different workspaces
- Navigating the drawing area
- Using command line and toolbars

2. Basic Drawing Commands

- Drawing lines, circles, arcs, polygons
- Using coordinate systems (absolute, relative, polar)
- Drawing basic shapes with precision
- Using grid and snap settings

3. Editing Commands

- Erase, copy, move, rotate, scale
- Trim, extend, offset
- Fillet and chamfer
- Stretch and mirror

4. Object Properties and Layers

- Changing object properties (color, linetype, lineweight)
- Creating and managing layers
- Layer properties manager
- Freezing, locking layers

5. Advanced Drawing Techniques

- Creating and using blocks

- Dynamic blocks basics
- Using arrays (rectangular, polar, path)
- Using grips for editing

6. Annotation and Dimensioning

- Adding text (single line, multiline)
- Text styles and formatting
- Creating and editing dimensions
- Dimension styles
- Leaders and tables

7. Working with Layouts and Viewports

- Model space vs paper space
- Creating layouts
- Setting up viewports
- Scaling viewports

8. Hatching and Gradient Fills

- Applying hatch patterns
- Editing hatch boundaries
- Gradient fills basics

9. Advanced Tools and Features

- Using external references (Xrefs)
- Working with images and PDFs
- Using parametric constraints
- Introduction to 3D modeling in AutoCAD

10. Printing and Plotting

- Plot styles and settings

- Configuring plotters and printers
- Plot preview and output

11. Customization and Productivity Tools

- Customizing toolbars and ribbons
- Using shortcuts and aliases
- Introduction to AutoLISP (basic automation)

12. Project Work and Real-World Applications

- Sample project drawing
- Industry-specific tips (architecture, mechanical, civil)
- Best practices and workflow tips