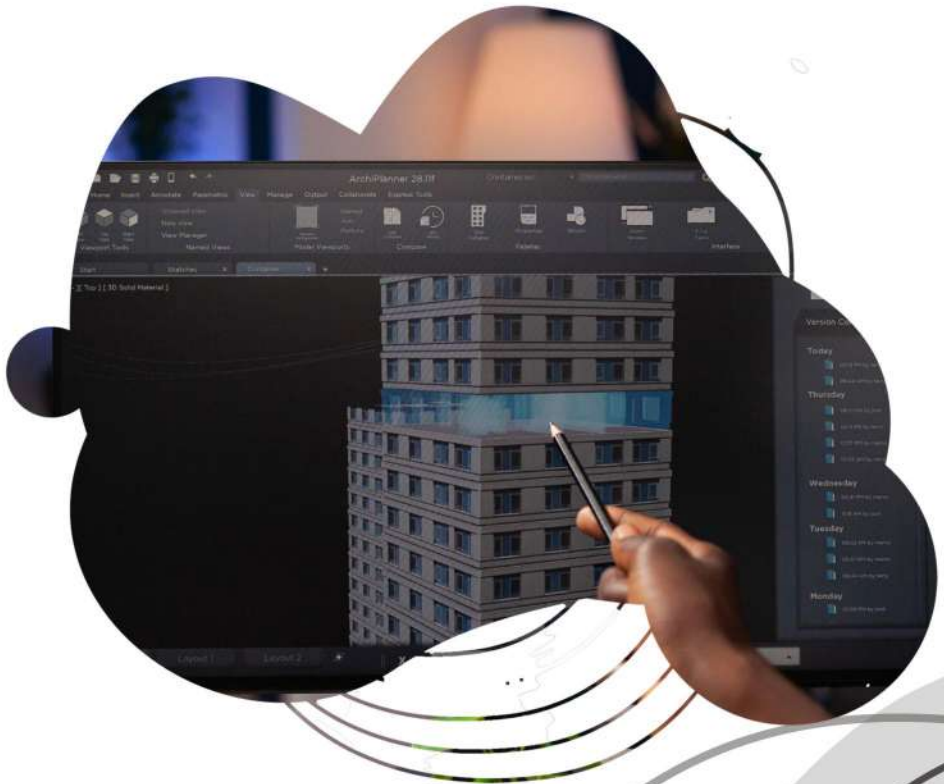


AutoCAD



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COURSE MODULES

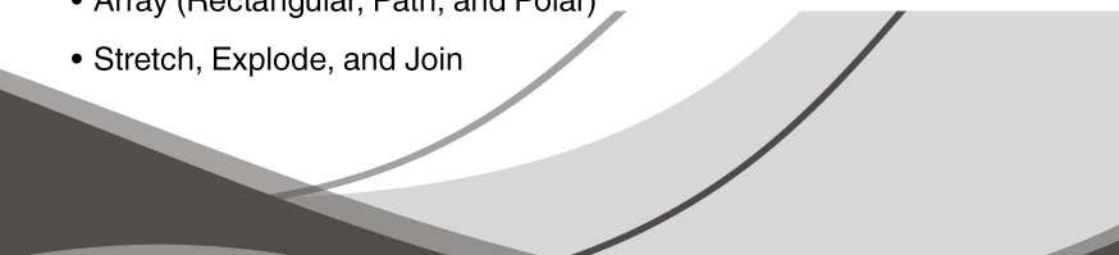
Module 1: Introduction to AutoCAD

- Overview of AutoCAD and its applications
- Understanding the AutoCAD interface and workspace
- Navigating the toolbar, ribbon, and command line
- File management: Opening, saving, and exporting drawings
- Basic mouse and keyboard controls

Module 2: Basic Drawing Tools

- Line, Circle, Arc, and Rectangle tools
- Polyline and Spline commands
- Using Object Snap (OSNAP) and Grid Snap
- Coordinate system: Absolute, Relative, and Polar Coordinates
- Using Dynamic Input

Module 3: Modifying Objects

- Move, Copy, Rotate, and Scale
 - Mirror, Offset, and Trim/Extend
 - Fillet and Chamfer
 - Array (Rectangular, Path, and Polar)
 - Stretch, Explode, and Join
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Module 4: Layers and Properties

- Creating and managing layers
- Layer properties: Color, Line Type, and Line Weight
- Freezing, Locking, and Hiding layers
- Changing object properties
- Using Layer States Manager

Module 5: Annotation and Text

- Adding and formatting text (Single-line & Multi-line Text)
- Using Text Styles
- Dimensioning (Linear, Aligned, Angular, Radius, Diameter)
- Dimension Styles and Multileaders
- Adding Hatches and Gradients

Module 6: Blocks, Groups, and Attributes

- Creating and inserting blocks
- Editing blocks using Block Editor
- Defining and using attributes
- Using groups for object organization
- Dynamic Blocks and Parametric Constraints

Module 7: Working with External References (Xrefs)

- Attaching and managing Xrefs
- Clipping and modifying Xrefs
- Overlay vs. Attach Xrefs
- Importing images and PDFs

Module 8: 3D Modeling (Advanced)

- Introduction to 3D in AutoCAD
- Working with 3D coordinate systems (UCS)
- Creating basic 3D objects (Box, Cylinder, Sphere, etc.)
- Extrude, Revolve, Loft, and Sweep commands
- Solid and Surface modeling techniques
- Applying materials and rendering

Module 9: Layouts, Printing, and Plotting

- Setting up viewports in Layouts
- Printing and Plotting settings
- Paper Space vs. Model Space
- Creating and using Plot Styles
- Exporting to PDF

Module 10: AutoCAD Customization & Productivity Tools

- Creating and managing templates
 - Customizing the user interface (Workspaces, Toolbars)
 - Creating custom commands and shortcuts
 - Introduction to AutoLISP and Macros
 - Using Design Center and Tool Palettes
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