

NUAB Academy

(A Division of NUAB Enterprises Pvt. Ltd)

Chapter 1: Introduction to AutoCAD 2020

- Introduction
- System requirements
- Starting AutoCAD 2020
- AutoCAD user interface
- Changing the Color Scheme
- Workspaces in AutoCAD 2020
- Application Menu
- Quick Access Toolbar
- File tabs
- Graphics Window
- ViewCube
- Navigation Bar
- Command-line
- Status Bar
- Menu Bar
- Changing the display of the Ribbon
- Dialogs and Palettes
- Tool Palettes
- Shortcut Menus
- Selection Window
- Starting a new drawing

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Chapter 2: Drawing Basics

- Drawing Basics
- Drawing Lines
- Erasing, Undoing, and Redoing
- Drawing Circles
- Drawing Arcs
- Drawing Polylines
- Drawing Rectangles
- Drawing Polygons
- Drawing Splines
- Drawing Ellipses

Chapter 3: Drawing Aids

- Drawing Aids
- Setting Grid & Snap
- Setting the Limits of a drawing
- Setting the Lineweight
- Using Ortho mode and Polar Tracking
- Using Layers
- Using Object Snaps
- Running Object Snaps
- Cycling through Object Snaps
- Using Object Snap Tracking
- Using Zoom tools
- Panning Drawings

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Chapter 4: Editing Tools

- Editing Tools
- The Move tool
- The Copy tool
- The Rotate tool
- The Scale tool
- The Trim tool
- The Extend tool
- The Fillet tool
- The Chamfer tool
- The Mirror tool
- The Explode tool
- The Stretch tool
- The Polar Array tool
- The Offset tool
- The Path Array tool
- The Rectangular Array tool
- Editing Using Grips
- Modifying Rectangular Arrays
- Modifying Polar Arrays

Chapter 5: Multi-View Drawings

- **Multi-view Drawings**
- **Creating Orthographic Views**
- **Creating Auxiliary Views**
- **Creating Named views**

Chapter 6: Dimensions and Annotations

- Dimensioning
- Creating Dimensions
- Creating a Dimension Style
- Adding Leaders

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- Adding Dimensional Tolerances
- Geometric Dimensioning and Tolerancing
- Editing Dimensions by Stretching
- Modifying Dimensions by Trimming and Extending
- Using the DIM EDIT command
- Using the Update tool
- Using the Oblique tool
- Editing Dimensions using Grips
- Modifying Dimensions using the Properties palette
- Matching Properties of Dimensions or Objects

Chapter 7: Section Views

- **Section Views**
- **The Hatch tool**
- **Setting the Properties of Hatch lines**
- **Island Detection tools**
- **Text in Hatching**

Chapter 8: Blocks, Attributes, and Xrefs

- Introduction
- Creating Blocks
- Inserting Blocks
- Exploding Blocks
- Using the Purge tool
- Using the Divide tool
- Renaming Blocks

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- Inserting Blocks in a Table
- Using Tool Palettes
- Inserting Multiple Blocks
- Editing Blocks
- Using the Write Block tool

Chapter 9: Layouts & Annotative Objects

- Drawing Layouts
- Working with Layouts
- Creating Viewports in the Paper space
- Changing the Layer Properties in Viewports
- Creating the Title Block on the Layout
- Working with Annotative Dimensions
- Scaling Hatches relative to Viewports
- Working with Annotative Text

Chapter 10: Templates and Plotting

- Plotting Drawings
- Configuring Plotters
- Creating Plot Style Tables
- Using Plot Styles
- Creating Templates
- Plotting/Printing the drawing
- Exporting to PDF

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Chapter 11: Creating Architectural Drawings

- Introduction
- Creating Outer Walls
- Creating Inner Walls
- Creating Openings and Doors
- Creating Kitchen Fixtures
- Creating Bathroom Fixtures
- Adding Furniture using Blocks
- Adding Windows
- Arranging Objects of the drawing in Layers
- Creating Grid Lines
- Adding Dimensions

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