

Syllabus of AutoCAD

AutoCAD 2016 (Fundamentals + Advanced)

1. Creating a Simple Drawing

Getting Started with AutoCAD

- o Starting AutoCAD
- o AutoCAD's Screen Layout
- o Working with Commands
- o Opening an Existing Drawing File
- o Saving Your Work
- o AutoCAD's Cartesian Workspace

Basic Drawing & Editing Commands

- o Drawing Lines
- o Erasing Objects
- o Drawing Lines with Polar Tracking
- o Drawing Rectangles
- o Drawing Circles
- o Viewing Your Drawing
- o Undoing and Redoing Actions

2. Making Your Drawings More Precise

Drawing Precision in AutoCAD

- o Using Object Snap
- o Object Snap Overrides

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- o Polar Tracking Settings
- o Object Snap Tracking
- o Drawing with SNAP and GRID

Making Changes in Your Drawing

- o Selecting Objects for Editing
- o Moving Objects
- o Copying Objects
- o Rotating Objects
- o Scaling Objects
- o Mirroring Objects
- o Editing Objects with Grips

3. Drawing Organization and Information

Organizing Your Drawing with Layers

- o Creating New Drawings With Templates
- o What are Layers?
- o Layer State
- o Changing an Object's Layer

Advanced Object Types

- o Drawing Arcs
- o Drawing Polylines
- o Editing Polylines
- o Drawing Polygons
- o Drawing Ellipses

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Getting Information From Your Drawing

- Measuring Objects
- Working with Properties

4. Creating More Complex Objects

Advanced Editing Commands

- Trimming and Extending
- Stretching Objects
- Creating Fillets and Chamfers
- Offsetting Objects
- Creating Arrays of Objects

Inserting Blocks

- What are Blocks?
- Inserting Blocks from Tool Palettes
- Inserting Blocks using Insert
- Inserting Blocks with DesignCenter

5. Preparing to Print

Setting Up a Layout

- Printing Concepts
- Creating Viewports
- Setting up Layouts
- Guidelines for Layouts

Printing Your Drawing

- Printing Layouts
- Printing a Check Plot

6. Annotating Your Drawing

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Text

- o Working with Annotations
- o Adding Text in a Drawing
- o Modifying Multiline Text
- o Formatting Multiline Text

Hatching

- o Hatching

Adding Dimensions

- o Dimensioning Concepts
- o Adding Linear Dimensions
- o Adding Radial and Angular Dimensions
- o Editing Dimensions
- o Adding Notes to Your Drawing

7. Beyond the Basics

Working Effectively with AutoCAD

- o Setting up the Interface
- o Using the Keyboard Effectively
- o Working in Multiple Drawings
- o Using Grips Effectively
- o Additional Layer Tools

Accurate Positioning

- o Coordinate Entry
- o Locating Points with Tracking
- o Construction Lines
- o Placing Reference Points

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8. Creating and Organizing Blocks

Creating Blocks

- o Creating Blocks
- o Editing Blocks
- o Removing Unused Elements

Blocks in Tool Palettes

- o Adding Blocks to Tool Palettes
- o Modifying Tool Properties in Tool Palettes

9. Drawing Setup and Utilities

Creating Templates

- o Why Use Templates?
- o Controlling Units Display
- o Creating New Layers
- o Adding Standard Layouts to Templates
- o Saving Templates

Annotation Styles

- o Creating Text Styles
- o Creating Dimension Styles
- o Creating Multileader Styles

10. Advanced Layouts and Printing

Advanced Layouts

- o Creating and Using Named Views
- o Creating Additional Viewports
- o Layer Overrides in Viewports
- o Additional Annotative Scale Features

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DWF Printing and Publishing

- o DWF Plotting and Viewing
- o Publishing Drawing Sets

11. Other Topics

- o How to Use Quick Calc
- o Additional Zoom Commands
- o Creating Model Space Viewports
- o Advanced Object Selection
- o Single-Line Text
- o Other Text Tools
- o Additional Dimensioning Tools
- o Creating Boundaries
- o Working with Regions
- o Temporary Overrides

12. AutoCAD 2016 3D Drawing and Modelling

3D Foundations

- Why use 3D?
- Introduction to the 3D Modeling Workspace
- Basic 3D Viewing Tools
- 3D Navigation Tools
- Introduction to the User Coordinate System

Simple Solids

- Working with Solid Primitives
- Solid Primitive Types
- Working with Composite Solids

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Working with Mesh Models

Creating Solids & Surfaces from 2D Objects

Complex 3D Geometry

Extruded Solids and Surfaces

Swept Solids and Surfaces

Revolved Solids and Surfaces

Lofted Solids and Surfaces

Advanced Solid Editing

Editing Components of Solids

Editing Faces of Solids

Fillets and Chamfers on Solids

Working Drawings from 3D Models

Creating Multiple Viewports

2D Views from 3D Solids

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