



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			

CAD Academy.

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Polar Tracking Settings **Object Snap Tracking** Drawing with SNAP and GRID Making Changes in Your Drawing Selecting Objects for Editing **Moving Objects** Copying Objects **Rotating Objects Scaling Objects** Mirroring Objects **Editing Objects with Grips** 3. Drawing Organization and Information Organizing Your Drawing with Layers Creating New Drawings With Templates What are Layers? Layer State Changing an Object's Layer **Advanced Object Types Drawing Arcs Drawing Polylines Editing Polylines Drawing Polygons Drawing Ellipses** CAD Academy. H.Office: 146 New Civic Centre, BHILAI-490006(INDIA)

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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** o What are Blocks? Inserting Blocks from Tool Palettes Inserting Blocks using Insert Inserting Blocks with DesignCenter 5. Preparing to Print Setting Up a Layout o Printing Concepts Creating Viewports Setting up Layouts **Guidelines for Layouts Printing Your Drawing** o Printing Layouts Printing a Check Plot 6. Annotating Your Drawing CAD Academy. H.Office: 146 New Civic Centre, BHILAI-490006(INDIA) Phone: +91 788 4062175, Toll Free: 18001211175,

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	О	Working with Annotations		
	o	Adding Text in a Drawing		
Α	o	Modifying Multiline Text		Α
	О	Formatting Multiline Text		
	Hatching			
D	o	Hatching		D
	Adding Dimensions			
	o	Dimensioning Concepts		
	o	Adding Linear Dimensions		
	o	Adding Radial and Angular Dimensions		
Α	О	Editing Dimensions		Α
	О	Adding Notes to Your Drawing		
	7. Beyond	I the Basics		
C	Working Effectively with AutoCAD			C
	О	Setting up the Interface		
	О	Using the Keyboard Effectively		
Α	О	Working in Multiple Drawings		Α
•	О	Using Grips Effectively		, ,
	О	Additional Layer Tools		
D	Accurate Positioning			D
	О	Coordinate Entry		
	О	Locating Points with Tracking		
Е	o	Construction Lines		Ε
_	0	Placing Reference Points		_
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8. Creating and Organizing Blocks **Creating Blocks** o Creating Blocks o Editing Blocks **Removing Unused Elements Blocks in Tool Palettes** o Adding Blocks to Tool Palettes 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 Creating Multileader Styles 10. Advanced Layouts and Printing **Advanced Layouts** o Creating and Using Named Views Creating Additional Viewports o Layer Overrides in Viewports o Additional Annotative Scale Features

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DWF Printing and Publishing DWF Plotting and Viewing Publishing Drawing Sets 11. Other Topics How to Use Quick Calc Additional Zoom Commands Creating Model Space Viewports **Advanced Object Selection** Single-Line Text Other Text Tools Additional Dimensioning Tools Creating Boundaries Working with Regions **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 CAD Academy. H.Office: 146 New Civic Centre, BHILAI-490006(INDIA) Phone: +91 788 4062175, Toll Free: 18001211175,

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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 CAD Academy. H.Office: 146 New Civic Centre, BHILAI-490006(INDIA) Phone: +91 788 4062175, Toll Free: 18001211175,

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Syllabus of CREO Parametric Part-A: Part modelling and assembly Module-1 Introduction to Creo-2 modelling and basic concepts Module-2 Using the creo-2 interface Module-3 Selecting and Editing Module-4 Sketcher geometry Module-5 Creating datum Features: Planes and Axes Module-6 Creating extrudes, Revolves and Ribs Module-6 Creating sweeps and blends Module-7 Creating holes, shells and drafts, Creating rounds, chamfers Module-8 Copy and mirror tools Module-9 Creating patterns Module-10 Assembling with constraints Module-11 Exploding assemblies Module-12 Using layers Module-13 Managing design intent Module-14 Resolving failures and seeking help Part-B: Surface modelling Module-1 Surface modelling overview Module-2 Advance selection Module-3 Basic Surfacing tools Module-4 Helical Sweep Module-5 Creating and editing solids using quilts

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Part-C Sheetmetal Design Module -1 Introduction to Sheetmetal design process Module-2 Sheetmetal model fundamentals Module-3 Creating primary and secondary Sheetmetal, Wall features Module-4 Modifying Sheetmetal models Module-5 Sheetmetal Bends Module-6 Setting the Sheetmetal environment **Part-D Detailing of Drawings** Module-1 Introduction to drawings Module-2 Creating new drawings and views Module-3 Adding details to drawings Module-4 Adding notes to drawings Module-5 Adding tolerance and symbols Module-6 Using layers in drawings Module-7 Creating reports (BOM) **Extra topics covered** Application of mechanisms to assemblies Creating animation clips of various assemblies and models M CAD Academy.

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