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Website : www.citcchandigarh.com

Course Syllabus: Certificate in AutoCAD Mech. 2D, 3D

Batch Name: AutoCAD Mech. 2D, 3D

Eligibility: 10th

Course Start: 1st of Every Month

Course Duration: 90 Hours

Courses / Modules Paper

Module 1:

Paper 1

AutoCAD Mech.

Module 1:

Paper 1: AutoCAD

1: Introduction to AutoCAD

- 1.1 Introduction
- 1.2 SignIN to AutoDesk360
- 1.3 Explore the AutoCAD 2016
- 1.4 Set Drawing Units
- 1.5 Pan and Zoom Tools

2: Basic Drawing Tools

- 2.1 Navigate 2D Drawings
- 2.2 Draw Lines and Rectangles
- 2.3 Cancel, Erase and Undo
- 2.4 Use Coordinate Systems
- 2.5 Draw Circles, Arcs & Polygons
- 2.6 Use Fillet & Chamfer

3: Using Drawing Aids

- 3.1 Use Grid and Snap
- 3.2 Employ Ortho and Polar Tracking
- 3.3 Use PolarSnap
- 3.4 Select Running Object Snaps
- 3.5 Harness the FromSnap
- 3.6 Apply Object Snap Tracking

4: Editing Entities

- 4.1 Create a Selection Set
- 4.2 Selecting Similar Objects
- 4.3 Use Move & Copy
- 4.4 Use Rotate & Scale
- 4.5 Work with Arrays
- 4.6 Use Trim & Extends
- 4.7 Use Lengthen & Stretch
- 4.8 Use offset & Mirror
- 4.9 Edit Bill Grips

5: Shaping Curves

- 5.1 Draw and Edit Curved Polylines
- 5.2 Draw Ellipses
- 5.3 Shapes Splines
- 5.4 Blend b/w Objects with Splines

6: Controlling Object Visibility & Appearance

- 6.1 Change Object Properties
- 6.2 Set the Current Layer
- 6.3 Altered the Layer Assignment of Object
- 6.4 Control Layer Visibility
- 6.5 Apply Linetype
- 6.5 Assign Properties by Objects/Layers
- 6.6 Manage Layer Properties
- 6.7 Isolates Objects

7: Organizing Objects

- 7.1 Define Blocks
- 7.2 Insert Blocks
- 7.3 Edit Blocks
- 7.4 Redefine Blocks
- 7.5 Work with Groups

8: Hatching & Gradients

- 8.1 Specify Hatch Areas
- 8.2 Associate Hatches with Boundaries
- 8.3 Hatch with Patterns
- 8.4 Hatch with Gradients

9: Working With Blocks & Xrefs

- 9.1 Work with Global Blocks
- 9.2 Access Content Globally
- 9.3 Score Content on Tool Palettes
- 9.4 Reference External Drawings & Images
 - Use Xrefs

10: Creating and Editing Text

- 10.1 Style Text
- 10.2 Write Lines of Text
- 10.3 Write and Format Paragraph using MTEXT
- 10.4 Edit Text
 - Edit Content
 - Properties
 - Work With Columns

11: Dimensioning

- 11.1 Style Dimensions
 - Create Dimensions Style
 - Styling Dimensions in Multiple Drawings
- 11.2 Add Dimensions
 - Use inquiry Commands
 - Add Dimensions Objects
 - Add and Style Multileaders
- 11.3 Edit Dimensions

12: Keeping in Control With Constants

- 12.1 Work with Geometric Constraints
- 12.2 Applied Dimensional Constraints
- 12.3 Constrains Object with Geometry & Dimensions
- 12.4 Make Parametric Changes to Constraints Objects

13: Working with Layouts & Innotative

- 13.1 Create Annotative Styles & Objects
- 13.2 Create Layouts
- 13.3 Adjust Floating Viewports
- 13.4 Override Layer Properties
- 13.5 Draw on Layouts

14: Printing & Plotting

- 14.1 Configure Output Devices
- 14.2 Create Plot Style Tables
- 14.3 Use Plot Style Tables
- 14.4 Plot in Model Space
- 14.5 Plot Layouts in Papers Space
- 14.6 Export to an Electronic Formats

15: Navigating 3D Models

- 15.1 Use Visual Styles
- 15.2 Work With Tiled Viewports
- 15.3 Navigate with the ViewCubes
- 15.4 Orbit in 3D
- 15.5 Use Cameras
- 15.6 Navigate with SteeringWheels
- 15.7 Save Views

16: Modeling in 3D

- 16.1 Create Surface Models
- 16.2 Edit Surface Models
- 16.3 Create Solid Models
- 16.4 Edit Solid Models
- 16.5 Smooth Mesh Models
- 16.6 Live-Section Model

17: Presenting & Documenting 3D Design

- 17.1 Assign Materials
- 17.2 Place & Adjust Lights
- 17.3 Create Renderings
- 17.4 Document Models With Drawings