

LEVEL – I (30 hours)

(INTRODUCTORY Objective)

To acquire basic skills on 2D Drawing.

• **AutoCAD Overview**

- Introduction to AutoCAD
- AutoCAD releases
- Loading AutoCAD
- Under landing Drawing Editor
- Drawing file management
- Multiple drawing support
- Sample drawing session

• **AutoCAD Basic Drafting Skills**

- The AutoCAD Coordinate Systems
- Methods of pointing
- Creation of AutoCAD primitives
- Object Snap and Grid
- Basic object selection techniques
- Modifying objects
- Inquiry of objects
- Controlling large drawing
- Controlling multi-layering in projects
- Hatching Styles and Process
- Advanced Hatching Techniques

• **Documentation**

- Concept of Dimensioning
- Quick Dimensioning
- Dimension Commands
- Types of Dimensioning

• **Plotting**

- Overview of Plotting Device
- Plot setting in AutoCAD
- Sample Output

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- Project - 1 **Plan & Elevation**

LEVEL — 2 (INTERMEDIATE) 36 hours

Objective :-

To acquire intermediate skills on 2D Drawing

• **Drawing symbols management**

- Creation of Blocks
- Attributes - Concept and Definition
- Attribute Management
- Attribute Extraction

• **Multiple Design Environment**

- Multiple Drawing Management
- Sharing objects within Drawing
- Quick Select

• **AutoCAD Design Centre (ADC)**

- Find Tool
- Sharing resources among drawings

• **Tool Palettes**

- Tool Palettes Concept
- Customization and usage

• **Intermediate Drawing Controls**

- Multi Lines - Creation and Management
- Creation of isometric Drawings

• **External Reference and Layouts**

- External Reference Concept
- Multiple Reference of Drawings
- View ports - Concept and usage
- Using Layouts in Drawings

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• **Customisation of AutoCAD Environment**

- Creation of Template Files
- Creation of AutoCAD menus
- Loading of Menu files
- Concept and use of System variables
- Dimension Style Manager

• **Tables**

- Creation and Management of Tables
- Importing contents of Tables

• **Project – 2 :- Isometric Drawing**

LEVEL - 3 (ADVANCED) 36 hours

Objective :-

To acquire advanced skills in 3D Modeling

• Introduction to 3D in AutoCAD

- Concept to AutoCAD 3D
- Layout of AutoCAD Drawing
- View port Management in 3D

• 3D Modeling in AutoCAD

- Wire frame Model Creation
- Surface Model Creation
- Solid Model Creation
- Point Filter control & applications

• 3D Viewing Skills

- DDV Point
- Dynamic View using 3D Orbit
- Generation of Perspectives

• Advanced 3D Modeling

- The World Coordinate System
- Concept of User Coordinate System
- Creation of objects using UCS
- Managing UCS per View port

• 3D Manipulation

- 3D Array of objects

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- Boolean operations on Solids
- Solid Editing
- Generating Sections using Soldraw

• **Presentation Techniques on 3D**

- 3D Shading and Orbital animation using 3DOrbit
- Concept of Rendering
- Material application on objects and its effects
- Lighting Creation and effects
- Landscaping feature for Render
- Conversion of Rendered drawings into Raster images.

• **Project – 3 :- 3D Modelling**

- Creation of 3D architectural drawing.