

AUTOCAD - 4 Weeks

Getting started with AutoCAD

- Introduction
- Installation
- Understanding the Auto CAD Interface
- Screen layout
- Starting command from menus & icons
- Correcting mistakes
- Online help

Creating Basic drawings

- Creating Basic Objects
- Using Polar Tracking, Polar Snap and Object Snap Tracking
- Working with Units
- Understanding Coordinate Systems

Manipulation Objects

- Creating New Objects from Existing Objects
- Changing the Angle of an Objects Position.
- Creating a Mirror Image of Existing Objects.
- Creating Object's Patterns
- Creating Object's Size
- Inquiry Commands

Altering Objects

- Trimming and Extending Objects
- Creating Parallel and Offset Geometry
- Joining and Breaking an Object
- Applying a Radius Corner to Two Objects
- Creating an Angled Corner Between Two Objects
- Changing Part of an Object's Shape
- Changing Object Properties
- Using the properties palette
- Using Line types

Annotating Drawings

- Creating Multiline Text and single line text
- Using Text Styles and Editing Text

Dimensioning

- Creating Dimensions
- Using Dimension Styles
- Editing Dimensions
- Using Layers

Creating additional drawing objects

- Grouping (To make a group of objects)
- Filtering the Objects
- Using Page Setups
- Plotting Drawings

Working with Reusable content

- Using Blocks

Hatching Objects

- Hatching and Editing Hatch Objects

Template drawing creation

- Using Drawing Templates

AutoCAD 3D

- Introduction to 3D Modelling
- Creating Models from 2D Profiles
- Working in 3D
- Converting 2D Objects to Solids or Surfaces
- Getting information from 3D objects
- Using Lights
- Using Materials
- Rendering

Auto CAD MAP

Overview of the Auto CAD MAP

- Introduction to the user interface
- Capturing of Data from different sources,
- Insert Raster Image Creating different layers for different objects, Digitization or Vectorisation

- Cleaning up the map,
- Removing the errors like Undershoot, Overshoot, Break Crossing Objects, Etc.

- Topology Creation
- Create closed polygon,
- Attribute Attachment both Internal,
- Rubber sheet the Map,
- External database attachment
- Query Firing, Analysis
- Exporting Dwg file in different formats

ARCGIS

- Introduction to ARCGIS Geo-database, Georeferencing, Domain, Subtypes
- Query Analyses
- An Introduction to Network dataset

PROJECT WORK