

Autocad Software Outline

Course offers to !

Civil Engineers , Mechanical Engineers, Electrical Engineers and Associate Engineers (Diploma holders)

This course offers to civil engineers

Why Autocad Software ?

- ✓ The meaning of AutoCAD is “Automatic Computer-Aided Design”. The AutoCAD software is made for design and draft. The AutoCAD offers a civil engineer to the analysis of the ideas of a creative structure. It is proposed a civil engineer for designing products and also for creative structures. It helps us to perform rapid design calculations. The AutoCAD also allows us to simulations in the field of civil.
- ✓ The main ability of AutoCAD is to plan a site a lot simple than hand drawing. If someone wants to draft a structure (it might be 2D, 3d) with speed and exactness, AutoCAD is the best option for them.
- ✓ AutoCAD software is very important in the field of Civil. It Shows you , your future planning in very accurate form .
- ✓ You can make Maps of houses having any area ,Cross sections of road , Elevations , Beams , Columns and slab , Sewerage system design ,Stairs design (Riser ,tread) .
- ✓ It allows a draftsman to design, plan, run and analyze the strength of a building, at the design stage level.
- ✓ A 3D print has its own points of interest for creators and for this product helps them. The designs can be traded to different favored configurations.
- ✓ The AutoCAD is helped Civil Engineers to solve the wrong structure by viewing dimension , and plan .
- ✓ Engineers do mistakes when working in the AutoCAD software. If a mistake made by an engineer in drawing and drafting, it is possible to edit the draft simply. The AutoCAD allows us to draft with fractional dimensions. It is also defined as clearness to any number of decimal places. Which is a little bit hard to achieve in hands drawings
- ✓ Create a drawing in AutoCAD is simple and faster than hand drawing. It saves time and effort. There are a lot of commands for easy edits.

Topics Covered

How to set units

Dimension Style manager

Learn different command

Line commands

concept of constructions line

Concept of polyline and where to use in detail

Incircle and out circle in polygon

Use of rectangle in different works

Where to use arc and different types

How we can make bars of circle

Revision Cloud and its use

Spline

What is ellipse and how use

How we apply ellipse arc

How to insert block

How we can make block

Use of point and how we can change change its sign for house

How we add hatching in column footing and how we can create area through using hatch commands

What is gradient

Where we can use region command

How we can make and insert different table

How we give name at different content to building , or in elevation like NSL (Natural surface level) ,
DPC , Subgrade , bar # and etc

In case of any error how we can erase .

How to Make copy of anything in for saving time

How we do we shift one object to other side

Thickness of wall adding and offset to anything

What is array and where to use

How we move any object from one place to another

Fix the object in given angle .

Stretch of material

Function of trim and Extend

Function of break at point and break

How we join the functions after breaking

How we provide circular share at the window or room

How to change polyline into a single step selection

How to make layers

How to change line type for NSL , or to show anything in building

Note :

Blocks will also be provided

Project :

Construction of house in complete detail with hatching and Area .

Adding different layers .

Inserting blocks (Sofas , bed , car ,cleans etc)

Components (Gate , Doors , Windows , Stairs , Ventilators)

Autocad 3D

Introduction to visual style bar

Introduction of view

How we use options

Use of extrude command

3D Block work

3D wall Work

How we implement modeling Command and how to extend wall of room

How to add 3D window in room

How to add floor in room

How to make single door in 3D

Project :

1) Modelling of Room in complete detail .

Adding Slab ,Window how to make own door , Floor Etc

2) How to Extrude complete Building of project .

