

SYLLABUS OF AUTOCAD

(Duration 60 hrs.)

Introduction to the software

Module – 1 (25 hrs.)

1- History & Development:

Idea of all the versions of autocad
system requirements
latest applications etc.

2- 2-d Drawing Tools

Limits
Units
Line tools
Draw toolbar like Line, Rectangle, Ellipse, Polygon, Construction lines,
polyline concept and their uses.

3- Modification Tools

Modify toolbar like copy, mirror, array, move, fillet, chamfer, explode,
bending curves, break options and their uses in different drawings.

4- Drawing practice

Concept of all core drawings using various example and live drawings

Module – 2(15 hrs.)

1- Colour concept (Layers)

Using of properties tools in drawing,
layer concept
layer transform
layer rename

layer off
layon
matc properties,
lts
lwt concept etc.

2- Blocks & Design Center

Using of different techniques to handle blocks and items in drawings

3- Raster Image Processing

Image processing using CAD
image adjust
brightness control etc., pdf conversion, pdf underlay, conversion of cad files into pdf format and others.

Module – 3(25 hrs.)

1- Introduction to 3D

Concept of 3d drawings
entry and exit to 3d environment
interface of 3d, toolbars of 3d.

2- 3d tools and their uses

Starting and modifying of 3d objects
conversion of 2d items to 3d items.
Orbit tool
Extrude
Presspull
Sweep
wireframe structures etc.

3- Coloring

Face coloring and face editing options like shell, taper face, offset face,

4- Rendering effects

Concept of application of lighting effects

shadow effects

torch effect on the drawings.

5- Plotting

Concept of taking printout of any drawing from cad, paper size settings, different isometric views and their printout.

❖ Doubt clearing classes

❖ Overview of Photoshop, Catia, Pro.E, staad.pro