

Foundation CAD 2 Hours / Day [AutoCAD]

AutoCAD	Total Duration : 60Hours
Session1	<ul style="list-style-type: none"> • Introduction to CAD • Introduction to Engineering Drawings <ul style="list-style-type: none"> ○ Projections (First & Third angle) ○ Views (Orthographic, Isometric) • Introduction to AutoCAD <ul style="list-style-type: none"> ○ History ○ Exploring GUI ○ Workspaces • Co-ordinate systems • Drawing Setting – Units, Limits. • Status Tool – Snap,Grid,Polar,Ortho,Otrack,Osnap,Lwt,Qp,Dyn
Session 2 & 3 4,5	<ul style="list-style-type: none"> • Standard Tool <ul style="list-style-type: none"> ○ New, Qnew, Open, Save, Save as, Close, Exit, Quit, Calculator, ○ Properties, Pan,Zoom • Draw Tool <ul style="list-style-type: none"> ○ Drawing simple sketches using Line, Circle, Arc, Ellipse, Polygon, Rectangle, Xline , Polyline, Revision cloud. ○ Point, Hatch, Text, Table, Region. • Object Selection Methods <ul style="list-style-type: none"> ○ Select, Simple & Crossing Window, Simple & Crossing Polygon ○ Fence, Qselect • Modify Tool <ul style="list-style-type: none"> ○ Editing commands – Erase, Oops, Undo, Redo, Move, Copy, Rotate, Array, Mirror, Align, Trim, Extend , Fillet, Chamfer, Scale, Stretch, Offset, Break, Xplode, Blend Curve.
Session 6	<ul style="list-style-type: none"> • Style Tool <ul style="list-style-type: none"> ○ Annotations – Text Style, Dimension Style, Table Style ○ Multileader Style • Property Tool <ul style="list-style-type: none"> ○ Object Properties - Color, Linetype, Line weight,
Session 7	<ul style="list-style-type: none"> • Dimension Tool <ul style="list-style-type: none"> • Dimension - Linear, Aligned, Radius, Diameter, Center Mark, Angle, Arc length, Continuous, Baseline, Tolerance, Dimension

	Space, Dimension Break, Inspection, Jogged radius, Ordinate dimensions. Leader,
Session 8	<ul style="list-style-type: none"> • Layer Management <ul style="list-style-type: none"> ○ Adding / Removing Layers ○ Layer Status ○ New Property Filter ○ New Group Filter ○ Layer Status Manager ○ Plot Control
Session9, 10	<ul style="list-style-type: none"> • Productivity Tool <ul style="list-style-type: none"> • Block, Wblock, Insert, • Defining &Editing attributes –Attdef, Attedit,Eattedit, Attdisp, Batman,Att Extraction, Group , • Divide, Measure,Mslide, Vslide,Script,Slide Library • External Reference • Design Center , Tool Palettes • OLE concepts ,Etransmit, Publish to Web. • Hyperlink,Copy, Copybase, Copylink, Pasteclip, Pastespecial, Pasteblock, Pasteoriginal • Drawing Templates • Inquiry Information <ul style="list-style-type: none"> • Id, Dist, List, Radius, Angle, Area, Volume, Lengthen
Session 11	<ul style="list-style-type: none"> • Layout Management, • Plotting & Printing of Drawing <ul style="list-style-type: none"> • Define Plotter • Colour &Name Dependent Plot Style • Import & Export of File • AutoCAD Customization • Project

AutoCAD 3D

- ❖ **Concept of 3D Modeling**
- ❖ **Types of 3D Model**
- ❖ **UCS**
- ❖ **Solid Modeling-**
Extrude,Revoled,Sweep,Presspull,Loft,Box,Wedge,Cone,Sphere
- ❖ **Boolean Operations-**
Add,Substract,Union
- ❖ **Solid Editing-**
Extrude ,Move, Offset, Rotate, Taper, Copy faces,Fillet,Chamfer,
Colour edges,Shell,Imprint.
- ❖ **Surface Modeling-**
Extrude,Blend,Revolve,Sweep,Loff,Patch,Offset,Surface Creation
- ❖ **Surface Editing-**
Trim, Untrim Extend,Sculpt,NURBS,CV Surface Display &Hide
- ❖ **Visual Style**
- ❖ **Orbit**
- ❖ **View**
- ❖ **Smooth Mesh Primitives**
Box,Cone,Cylinder,Pyramid,Wedge,Sphere,Torous
- ❖ **Smooth Mesh**
- ❖ **Create 2D view from 3D**
- ❖ **Rendering**