

# AutoCAD 2D Syllabus

**Total duration: 64 hours (Theory 32 Hours + Lab 32 Hours)**

## AutoCAD 2D Total Duration : 64 Hours

Session	Topics
<b>Session 1</b>	<b>Introduction to Engineering Drawings</b>
	Projections (First & Third angle)
	Views (Orthographic, Isometric & Perspective)
	<b>Introduction to AutoCAD</b>
	History
	Exploring GUI
	Workspaces
	<b>Co-ordinate systems</b>
<b>Session 2 &amp; 3</b>	<b>Orthographic Views</b>
	<b>Drawing settings - Units, Limits</b>
	<b>Drawing Tools:</b> Line, Circle, Arc, Ellipse, Donut, Polygon, Rectangle
	<b>Modify Tools:</b> Erase, Oops, Undo, Redo, Explode, Move, Copy, Rotate, Mirror, Array, Align, Scale, Stretch, Lengthen, Trim, Extend, Break, Join, Chamfer, Fillet
	<b>File Management -</b> New, Q new, Open, Save, Save as, Close, Exit, Quit
	<b>Mini Project 1 - Orthographic Views</b>
<b>Session 4</b>	<b>Drawing Tools:</b> Multiline, Pline, Spline, Xline, Ray, Wipeout, Revision cloud
	<b>Modify Tools:</b> Mlstyle, Mledit, Pedit, Splinedit
	Grip Editing
<b>Session 5</b>	<b>Display Control:</b> Zoom, Pan, Redraw, Regen, Clean Screen, Steering wheels
	<b>Object Properties:</b> Color, Linetype, Ltscale, Line weight, Properties, Match prop
<b>Session 6</b>	<b>Layer Management</b>
	Adding / Removing Layers
	Layer Status
	New Property Filter
	New Group Filter
	Layer Status Manager
Plot Control	
<b>Session 7</b>	<b>Object Selection Methods</b>
	Select, Qselect, Filter
	Symbol & BOM Creation Block, Base, Wblock, Insert

<b>AutoCAD 2D Total Duration : 64 Hours</b>	
<b>Session</b>	<b>Topics</b>
<b>Session 8</b>	<b>Symbol &amp; BOM Creation:</b> Divide, Measure, Attribute (Attdef, Attedit, Eattedit, Attdisp, Attdia, Atttext, Eatttext)
	<b>Project:</b> Create a customized title Block using Attributes and save it as a Template
<b>Session 9</b>	<b>Symbol &amp; BOM Creation:</b> Dynamic Block
	<b>Parametric Modeling:</b> Geometric Constraint, Dimensional Constraint, Action Recorder, Design Centre, Tool Palette
<b>Session 10</b>	<b>Isometric View Drawings</b>
	<b>Perspective View Drawings:</b> One Point & Two Point
	<b>Project: Isometric View, Perspective View: Building Exterior (two point perspective), Interior(one point perspective)</b>
<b>Session 11</b>	<b>Annotation Tools:</b> Test, Style, Mtext, Scaletext, Spell, Table, Tablestyle, Tabledit
<b>Session 12</b>	<b>Hatching utilities</b> - Hatch, Hatchedit, Gradient
	<b>Inquiry commands</b> - Id, Dist, List, Radius, Angle, Area, Volume
	<b>Fill, Fillmode</b>
<b>Session 13</b>	<b>Dimension</b> - Linear, Aligned, Radius, Diameter, Center Mark, Angle, Arc length, Continuous, Baseline, Tolerance, Dimension Space, Dimension Break, Inspection, Jogged radius, Ordinate dimensions, Leader, Qleader
<b>Session 14</b>	Mleader, Multi leader style, Add leader, Align Leaderlines, Collect Leader
	Dim edit, dimtedit, Dimension Associative, Reassociate
	Dimension Style
	<b>Project 1</b>
<b>Session 15</b>	<b>OLE concepts</b> - Olelinks, Olescale, Insertobj
	Hyperlink
	Copy, Copybase, Copylink, Pasteclip, Pastespecial, Pasteblock, Pasteoriginal
	<b>External references</b> - Xref, Xbind, Circular Xref, Refedit
<b>Session 16</b>	Etransmit, Publish, Publish to Web
	Introduction to plotting, Layout, Viewports, M view, Page setup, Plot Styles, Plot