

Sessions	Topics
Session 1	<ul style="list-style-type: none"> <li>• About CADD centre</li> <li>• Introduction to Engineering Drawings                             <ul style="list-style-type: none"> <li>○ Projections (First &amp;Third angle)</li> <li>○ Views (Orthographic,Isometric&amp; Perspective)</li> </ul> </li> <li>• Introduction to AutoCAD                             <ul style="list-style-type: none"> <li>○ History</li> <li>○ Exploring GUI</li> <li>○ Workspaces</li> </ul> </li> <li>• Co-ordinate systems</li> </ul>
Session 2 and 3	<ul style="list-style-type: none"> <li>○ Orthographic Views:</li> <li>○ Drawing settings - Units,Limits</li> <li>○ Drawing Tools: Line, Circle,Arc, Ellipse, Donut, Polygon, Rectangle</li> <li>○ Modify Tools: Erase, Oops,Undo, Redo, Explode, Move, Copy, Rotate, Mirror, Array, Align, Scale,Stretch, Lengthen, Trim, Extend, Break, Join, Chamfer, Fillet</li> <li>○ File Management - New, Qnew,Open, Save, Save as, Close, Exit, Quit</li> </ul> <p><b>Mini Project 1 - Orthographic Views</b></p>
Session 4	<ul style="list-style-type: none"> <li>• Drawing Tools: Multiline,Pline, Spline, Xline, Ray, Wipeout, Revision cloud</li> <li>• Modify Tools: Mlstyle,Mledit, Pedit, Splinedit</li> </ul> <p>Grip Editing</p>
Session 5	<ul style="list-style-type: none"> <li>• Display Control: Zoom, Pan,Redraw, Regen, Clean Screen, Steering wheels</li> <li>• Object Properties: Color,Linetype, Ltscale, Lineweight, Properties, Matchprop</li> </ul>
Session 6	<ul style="list-style-type: none"> <li>• Layer Management                             <ul style="list-style-type: none"> <li>○ Adding / Removing Layers</li> <li>○ Layer Status</li> <li>○ New Property Filter</li> <li>○ New Group Filter</li> <li>○ Layer Status Manager</li> </ul> </li> <li>• Plot Control</li> </ul>
Session 7	<ul style="list-style-type: none"> <li>• Object Selection Methods                             <ul style="list-style-type: none"> <li>○ Select,qselect, Filter</li> </ul> </li> <li>• Symbol &amp; BOM Creation: Block, Base, Wblock, Insert</li> </ul>
Session 8	<ul style="list-style-type: none"> <li>• Symbol &amp; BOM Creation:Divide, Measure, Attribute (Attdef, Attedit,Eattedit, Attdisp,Attdia,Atttext, Eatttext)</li> <li>• <b>Project: Create a customized Title Block using Attributes and save it as a Template</b></li> </ul>
Session 9	<ul style="list-style-type: none"> <li>• Symbol &amp; BOM Creation:Dynamic Block</li> <li>• Parametric Modeling:Geometric Constraint, Dimensional Constraint</li> <li>• Action Recorder, Design Centre, Tool Palette</li> </ul>
Session 10	<ul style="list-style-type: none"> <li>• Isometric View Drawings</li> <li>• Perspective View Drawings                             <ul style="list-style-type: none"> <li>○ One Point &amp; Two Point</li> </ul> </li> <li>• <b>Project: Isometric View, Perspective View: Building Exterior (two point perspective),Interior(one point perspective)</b></li> </ul>
Session 11	<ul style="list-style-type: none"> <li>• Annotation Tools: Test, Style, Mtext, Scaletext, Spell,</li> </ul>

	Table, Tablestyle, Tabledit
<b>Session 12</b>	<ul style="list-style-type: none"> <li>• Hatching utilities - Hatch, Hatchedit, Gradient</li> <li>• Inquiry commands - Id, Dist, List, Radius, Angle, Area, Volume</li> <li>• Fill, Fillmode</li> </ul>
<b>Session 13</b>	<ul style="list-style-type: none"> <li>• Dimension - Linear, Aligned, Radius, Diameter, Center Mark, Angle, Arc length, Continuous, Baseline, Tolerance, Dimension Space, Dimension Break, Inspection, Jogged radius, Ordinate dimensions.</li> <li>• Leader, Qleader</li> </ul>
<b>Session 14</b>	<ul style="list-style-type: none"> <li>• Mleader, Multi leader style, Add leader, Align Leaderlines, Collect Leader</li> <li>• Dim edit, dimtedit, Dimension Associative, Reassociate</li> <li>• Dimension Style</li> <li>• <b>Project 1</b></li> </ul>
<b>Session 15</b>	<ul style="list-style-type: none"> <li>• OLE concepts - Olelinks, Olescale, Insertobj</li> <li>• Hyperlink</li> <li>• Copy, Copybase, Copylink, Pasteclip, Pastespecial, Pasteblock, Pasteoriginal</li> <li>• External references - Xref, Xbind, CircularXref, Refedit</li> </ul>
<b>Session 16</b>	<ul style="list-style-type: none"> <li>• Etransmit, Publish, Publish to Web,</li> <li>• Introduction to plotting, Layout, Viewports, Mview, Page setup, Plot Styles, Plot</li> </ul>
<b>Session 17</b>	<ul style="list-style-type: none"> <li>• Need of 3rd dimension</li> <li>• The conventions of AutoCAD</li> <li>• Co-ordinate systems in 3D</li> <li>• Types of 3D Models</li> <li>• Surface Modeling <ul style="list-style-type: none"> <li>○ Rulesurf, Tabsurf, Revsurf, Edgesurf</li> </ul> </li> </ul>
<b>Session 18</b>	<ul style="list-style-type: none"> <li>• Surface Modeling <ul style="list-style-type: none"> <li>○ 3Dface, Edge, Pface, 3dPoly, 3dMesh, Planesurf, View Cubic, Vports</li> </ul> </li> <li>• <b>Mini project 9 - Surface Model</b></li> </ul>
<b>Session 19</b>	<ul style="list-style-type: none"> <li>• Solid Primitives <ul style="list-style-type: none"> <li>○ Box, Wedge, Cylinder, Cone, Sphere, Torus, Pyramid</li> </ul> </li> <li>• Region</li> <li>• Extrude</li> <li>• Revolve</li> <li>• Union</li> <li>• Subtract</li> </ul>
<b>Session 20</b>	<ul style="list-style-type: none"> <li>• Intersect</li> <li>• Interfere</li> <li>• Polysolid</li> <li>• Sweep</li> <li>• Helix</li> <li>• Loft</li> <li>• Press/Pull</li> </ul>

	<ul style="list-style-type: none"> <li>• UCS, UCS icon</li> <li>• Dyncamic UCS</li> <li>• UCSman</li> <li>• <b>Mini Project 10 - Solid Model</b></li> </ul>
Session 21	<ul style="list-style-type: none"> <li>• Mesh Primitives</li> <li>• Working with Gizmos             <ul style="list-style-type: none"> <li>○ Move, Rotate, Scale</li> </ul> </li> <li>• Smooth Object</li> <li>• Refine Mesh, Facetres</li> <li>• Add / Remove Crease</li> <li>• Split Mesh Face</li> <li>• Extrude Face</li> <li>• Convert to Solid</li> <li>• Convert to Surface</li> <li>• <b>Mini Project 11 - Mesh Model</b></li> </ul>
Session 22	<ul style="list-style-type: none"> <li>• Fillet</li> <li>• Chamfer</li> <li>• 3DArray</li> <li>• Mirror3D</li> <li>• Rotate3D</li> <li>• 3Drotate</li> <li>• 3Dalign</li> <li>• Slice</li> <li>• Section</li> <li>• Section Plane</li> <li>• Live section</li> <li>• Section plane jog</li> </ul>
Session 23	<ul style="list-style-type: none"> <li>• Solidedit</li> <li>• Massprop</li> <li>• Solview</li> <li>• Soldraw</li> <li>• Flatshot</li> <li>• 3Dorbit</li> <li>• 3Dcorbit</li> <li>• 3Dforbit</li> <li>• Camera</li> <li>• 3Dwalk</li> <li>• 3Dfly</li> <li>• 3ddistance</li> <li>• <b>Mini Project 12 - Create a 3d assembly and generate various views</b></li> </ul>
Session 24	<ul style="list-style-type: none"> <li>• Render Settings palette</li> <li>• Understanding lighting principles</li> <li>• Using lights in Rendering</li> <li>• Point light</li> <li>• Spot light</li> <li>• Distant light</li> <li>• Light list</li> <li>• Render</li> </ul>
Session 25	<ul style="list-style-type: none"> <li>• Sun properties</li> </ul>

	<ul style="list-style-type: none"><li>• Materials</li></ul>
<b>Session 26</b>	<ul style="list-style-type: none"><li>• Image</li><li>• Image attach</li><li>• Image adjust</li><li>• Image clip</li><li>• Image frame</li><li>• Image quality</li><li>• Transparency</li><li>• Draw order</li><li>• Export/Import</li><li>• <b>Project 3 -</b><ul style="list-style-type: none"><li>○ <b>Complete an Assembly drawing</b></li><li>○ <b>Assign Materials, Lights</b></li><li>○ <b>Generate Rendered images for Presentation</b></li><li>○ <b>Create various views using <i>Flatshot</i> for Production drawing</b></li><li>○ <b>Align the views in Layout</b></li></ul></li></ul>