

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Diploma in Architectural Assistantship

### Semester: 4

**Subject Name**    COMPUTER AIDED DRAFTING

Sr. No.	Course content
1.	<p><b>About AutoCAD:</b></p> <ul style="list-style-type: none"> <li>• To create a file and a folder</li> <li>• To start a drawing from scratch with the 'Create Drawing' dialogue box</li> <li>• To start a drawing from scratch from a default drawing template file</li> <li>• To begin a new drawing using a wizard</li> <li>• To start a drawing by selecting a template file</li> <li>• To create a drawing template file from an existing drawing</li> <li>• To save a drawing</li> <li>• To save a backup of the previous version every time the drawing is saved</li> <li>• To save selected objects into a new drawing file</li> <li>• To save a block definition as a new drawing file</li> </ul>
2.	<p><b>AutoCAD 2D COMMANDS:</b></p> <p>Drawing Commands</p> <ul style="list-style-type: none"> <li>• Line, Construction Line, Polyline, Polygon, Rectangle, Arc, Circle, Donut, Ellipse, Hatch, Boundary, Region, Revision Cloud, Surfaces, Solids</li> </ul> <p>Modification Commands</p> <ul style="list-style-type: none"> <li>• Erase, Copy, Mirror, Offset, Array, Move, Rotate, Scale, Stretch, Lengthen, Trim, Extend, Break, Chamfer, Fillet, Explode, 3D Array, Mirror 3D, Rotate 3D, Align</li> </ul> <p>Express Commands</p> <ul style="list-style-type: none"> <li>• Layer, Block, Text, Dimension</li> </ul> <p>Solids Editing Commands</p> <ul style="list-style-type: none"> <li>• Union, Subtract, Intersect, Extrude faces, Move faces, Offset faces, Delete faces, Rotate faces, Taper faces, Colour faces, Copy faces, Imprint, Clean, Separate, Shell, Check</li> </ul>
3.	<p><b>AutoCAD 3D COMMANDS:</b></p> <p>Drawing Commands</p> <ul style="list-style-type: none"> <li>• Surfaces, Solids</li> </ul> <p>Modification Commands</p> <ul style="list-style-type: none"> <li>• 3D Array, Mirror 3D, Rotate 3D, Align</li> </ul>

	<p>Solids Editing Commands</p> <ul style="list-style-type: none"> <li>• Union, Subtract, Intersect, Extrude faces, Move faces, Offset faces, Delete faces, Rotate faces, Taper faces, Colour faces, Copy faces, Imprint, Clean, Separate, Shell, Check</li> </ul>
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### **TERM WORK**

Students should prepare at least one set of presentation drawings including 3D drawing in AutoCAD of any given building during the semester.