



**MSME- TECHNOLOGY CENTRE, GUWAHATI**  
**TOOL ROOM & TRAINING CENTRE**  
Ministry of Micro, Small & Medium Enterprises, Govt. of India



**COURSE NAME: e – Learning on Application of AutoCAD**

**DURATION: 2WEEKS (2HRS/DAY)**

SL No.	CONTENT
1	Introduction to the course Introduction to CAD/CAE/CAM.
2	Introduction to co-ordinate system (Absolute and Relative)& its Importance, 2D commands Line,Plyline, circles, Modify commands like Offset, Trim Practice of exercises
3	Setting up Drawing sheet, Limits, Units. Other Modify commands like Mirror, Extend, Fillet, Chamfer etc. &practice
4	Use of Offset, Copy, Move, Array (Rectangular&Polar) Practiceof relatedExercises.
5	Demonstration of Rectangle, Arc, Spline, Ellipse &Polygon. Demonstration of Scale, Stretch, Break, Break at Points, Join, Polyline Edit,Hatch. Practice 2D sketch making using above Command
6	Introduction to Layer, Creating new Layers Layer Management Tools On/Off, Freeze/ Unfreeze, Lock/Un Lock, MatchProperties Use of layer in Drafting Understanding Orthographic Projection using layer command Practice of Orthographic Projection

<b>7</b>	<p>Introduction to isometric projections.</p> <p>Dimensioning of isometric drawing and its modifications</p> <p>Practice of Isometric drawing</p>
<b>8</b>	<p>Creation of Template &amp; Template editing, Block, W- Block, Insert,</p> <p>Practice on Template making&amp; Modification.</p>
<b>9</b>	<p>Introduction to Dimensioning Type &amp; Method of dimensioning.</p> <p>Modification of Dimensions &amp; Properties, Practice on dimensions overdrawings.</p> <p>Introduction to Multileader</p>
<b>10</b>	<p>Defining Limiting Dimension, Roughness, Manufacturing Symbols</p> <p>Practice dimensioning in 2d Sketches</p>
<b>11</b>	<p>Practice of production drawing drafting</p> <p>Different Standard symbols used in drafting</p> <p>Scaling of Templates</p>
<b>12</b>	<p>Introduction to 3D Modeling, use of UCS,</p> <p>Isometric View, Visual Style, Orbit etc isometric views in 3d modeling</p> <p>Region, Extrude ,Press pull practice &amp; exercises.</p>
<b>13</b>	<p>Demonstration of Union, Subtraction, Intersection &amp; solid Editing features</p>
<b>14</b>	<p>Demonstration of Extrude Face, Copy Face, Array Objects, , Move Object, Offset Object, , Color object etc.</p> <p>Revolve, Sweep, Helix creation, Loft ,3D Fillet, Chamfer, Mirror, Array &amp; Align</p>
<b>15</b>	<p>Generative Drafting and Convert into PDF</p> <p>Plotting &amp; Printing of PDF file</p> <p>Doubt Clearance and Question Answering.</p>