

## **AutoCAD Workshop**

This course covers the essential core topics for working with AutoCAD. The teaching strategy is to start with a few basic tools that enable the student to create and edit a simple drawing, and then continue to develop those tools. More advanced tools are also introduced throughout the course. Hands-on exercises through out the course are given to explore to create 2D & 3D drawings.

### **Key Benefits:**

We will provide knowledge in the field of designing and drawing by giving them an overview of all the tools and introducing them to the needs of the current industry.

### **Syllabus:**

Session 1: Getting Started with AutoCAD: starting autocad, autocad\'s user interface, working with commands, autocad\'s cartesian workspace, opening an existing drawing file, viewing your work, saving your work.

Session 2: Basic Drawing & Editing Commands: drawing lines, erasing objects, drawing lines with polar tracking, drawing rectangles, drawing circle, ellipse, arc, polygon, polyline, reference line, etc. undo and redo actions, editing command like move, copy, rotation, mirror, trim, extend, offset.

Session 3: Working with Dimension and Layers: setting up unit format, dimension styles, creating new drawings with templates, what are layers, layer states, changing an object\'s layer.

Session 4: Advanced Drawing and Editing Tools: Hatching, Inserting blocks/external objects, creating region, Arrays.

Session 5: Working with Outputs: export in various form, printing layouts, printing, getting information like dimension, area etc.

Session 6: Preparing detailed engineering Drawings: After getting analysis and design report, convert it into drawing format using autocad.

Session 7: Creating 3D Drawings: creating elevations, isometric views using 3D drawing commands, 3D editing commands.

