



Accredited Under  
National Institute of Electronics & Information Technology (NIELIT)  
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Ministry of Electronics & Information Technology  
Government of India

**&**

**Accr Institute Under ICMS Established Under Section 25, Act of  
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Central Govt of India**

## **Syllabus**

### **AutoCAD 2D**

**Hawal Srinagar-190011, J&K.**

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**Course Name: AutoCAD 2d**

**Time: 30-40hrs**

### Course Outline

Title	Details
<b>Introduction of AUTOCAD</b>	<p>AutoCAD is computer-aided design software that is used to create, modify, analyse and optimise a design. Students will learn that this software is used by architects, engineers, and for the construction purpose of generating 2D and 3D designs. Some other parts of the syllabus are:</p> <ul style="list-style-type: none"> <li>• Installing the application on the computer</li> <li>• Learning about the user interface of AutoCAD, such as panels, ribbon, model space, etc.</li> <li>• Understanding the setup tips of AutoCAD</li> <li>• Types and structures of drawings in AutoCAD</li> <li>• Learning basic drawing tools</li> </ul>
<b>Draw commands</b>	<p>In this subject, students will learn about the objects used for drawing purposes. Some of the Commands are lines, polylines, constructed lines, polygons, rectangles, circles, arcs, ellipses, etc. These toolbars are used to create 2-dimensional drawings.</p>
<b>Modify commands</b>	<p>The commands are used for passing information to the initial point of the task; Some other parts of the syllabus are:</p> <ul style="list-style-type: none"> <li>• Use of erase commands</li> <li>• Selection of multiple objects</li> <li>• Move and copy command</li> <li>• The distance method</li> <li>• The two points method</li> <li>• Trim and extend etc.</li> </ul>
<b>2D fundamentals</b>	<p>The students will learn about the various fundamentals of 2D in AutoCAD. The 2D fundamentals are an exploration of a variety of contemporary processes and techniques used in drawing in the wide array of drawing media. Some other parts of the syllabus are:</p>

	<ul style="list-style-type: none"> <li>• Understanding the AutoCAD workspace and user interface.</li> <li>• Organising drawing objects in layers</li> <li>• Using basic drawing, editing, and viewing tools</li> <li>• Preparing a layout to be plotted.</li> </ul>
<b>Text command layers blocks</b>	<p>Students will learn to identify the text commands and layers. Some other parts of the syllabus are:</p> <ul style="list-style-type: none"> <li>• Understanding the concept of creating, renaming, and removing layers</li> <li>• Specifying the default properties</li> <li>• Sort, filter, and group layers names</li> <li>• Dimension objects</li> <li>• Layers visibility</li> <li>• Working with Blocks</li> </ul>
<b>Elevations</b>	<p>Students will learn about the concept of elevation in this subject. An elevation is an image that shows the height, length, and width of a particular building. It is prepared for the purpose of giving an idea about the look of the finished product.</p>
<b>Application of AutoCAD in various Engineering Fields</b>	<ul style="list-style-type: none"> <li>• Introduction to Electrical Drawings with some practical project drawings.</li> <li>• Introduction to Mechanical and HVAC Drawings with some practical project drawings.</li> <li>• Site Visits.</li> <li>• Studying the drawings on site for application.</li> </ul>

At the end of the course, Student will:

- Learn how to draft any 2D plan.
- Create Layers and Blocks.
- Annotate and Scale.
- Study any Complex Drawing.

- Create Layouts.
- Plot
- Learn information in drawing and execute work as per drawings pertaining to Mechanical and Electrical Fields.

#### **About ICMS Faculty**

- Former Maintenance Engineer Radisson Group of Hotels. (Experience: 8 years)
- Co-founder of TecNext Solutions (An MEP firm for designing and drafting large scale Mechanical Electrical & Plumbing Commercial Projects)
- Founder of Komfort HVAC Solution (Designing and Drafting of HVAC Projects)

**Study Material** Center Incharge

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