

COURSE TEMPLATE

Application Details

*Category	FOCUS_AREA
*Focus Area/Industry	Industry 4.0,
*Sector	

Course Details

*Course Name	AutoCAD Basic (2 Days)		
*Course Overview	This course is designed to provide comprehensive training on Autodesk AutoCAD, a powerful computer-aided design (CAD) tool used for creating precise 2D and 3D drawings. Participants will learn essential drafting techniques, efficient drawing organization, and best practices for modifying and annotating designs. The course emphasizes practical, hands-on learning to ensure participants can confidently apply their skills in real-world engineering, architectural, and design projects.	*Course Objective	The main objective of this course is to introduce the advanced techniques and teaches you to be more proficient in your use of AutoCAD. This is done by teaching you how to recognize the best tool for the task, the best way to use that tool, and how to create new tools to accomplish tasks more efficiently.
*Target Group (By designation)	Architects and architectural drafters Engineers (civil, mechanical, electrical, etc.) Interior designers	Minimum Training Requirement (If any)	Beginner with technical and computer skill

*Course Learning Outcome (CLO)	*CLO Statement		*Learning Domain
	Upon completion of this course, participants will be able to:		
	CLO 1	Understand the fundamentals of CAD and navigate the AutoCAD interface efficiently.	Skill - Level 1
	CLO 2	Create and modify basic 2D shapes using essential drawing tools.	Skill - Level 1
	CLO 3	Apply key editing tools to modify and enhance AutoCAD drawings effectively.	Skill - Level 1
	CLO 4	Utilize layers and properties to maintain organized and structured drawings.	Skill - Level 2
	CLO 5	Apply text annotation techniques to enhance drawing clarity and communication.	Skill - Level 2
	CLO 6	Implement dimensioning and layout setup techniques for accurate plotting and printing.	Skill - Level 2
	CLO 7		Please choose one
	CLO 8		Please choose one
	CLO 9		Please choose one
	CLO 10		Please choose one

Mapping of Training Modules and CLO

*Module	*CLO	*Theory Duration (Hours)	*Practical Duration (Hours)	Total Hours	Practical Elements (if any)
Module 1: Introduction to AutoCAD & User Interface - This module provides an introduction to AutoCAD, explaining its purpose and interface, and familiarizing participants with basic navigation tools, grid setup, and dynamic input for precise drawing.	1	2	0	2	Navigating menus, toolbars, project browser, and setting up a new project
Module 2: Basic Drawing Tools - Participants will learn to create fundamental 2D shapes using AutoCAD's drawing tools, ensuring accuracy and efficiency in technical drawings.	2	1	2	3	Drawing lines, circles, rectangles, and polylines. Using object snap and coordinate entry for accuracy. Practicing freehand sketches
Module 3: Editing & Modifying Drawings - This module focuses on modifying and refining drawings using essential editing tools, as well as utilizing blocks and attributes to improve workflow and reusability.	3	1	2	3	Using Move, Copy, Mirror, Trim, and Offset commands. Creating and modifying blocks with attributes.
Module 4: Organizing & Managing Drawings - Participants will understand how to organize and manage their drawings efficiently using layers, properties, and matching tools to maintain consistency in designs.	4	1	2	3	Editing existing drawings with Creating and managing layers. Applying colors, line types, and line weights. Using Match Layer and Match Properties to maintain
Module 5: Annotation & Text Management - This module covers text annotation techniques, including configuring text styles, managing line types and weights, and ensuring proper labeling in drawings.	5	1	1.5	2.5	Creating Single-line and Multi-line text annotations. Configuring text styles for better readability.
Module 6: Dimensioning & Layout Setup - Participants will learn to add precise dimensions to their drawings and set up layouts for plotting and printing, ensuring scaled and professional outputs.	6	1	2	3	Applying line types and Applying linear, angular, and radial dimensions. Setting up layouts and configuring viewports. Printing and exporting

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Total Hours		7	9.5	0	
Grand Total Hours				16.5	

PRACTICAL CENTRIC:

N/A

Mapping of CLO with Training Strategies and Assessment Method

*CLO	*Training Strategy	*Assessment Method	*Assessment Weightage (%)
CLO 1	Lecture	Quiz	10
CLO 2	Hands-on	Demonstration	15
CLO 3	Hands-on	Demonstration	15
CLO 4	Hands-on	Demonstration	20
CLO 5	Hands-on	Demonstration	20
CLO 6	Hands-on	Demonstration	20
	Please choose one	Demonstration	
	Please choose one	Demonstration	
	Please choose one	Demonstration	
	Please choose one	Demonstration	
Total Weightage			100

Note:

1. *compulsory field to be filled.

2. Fill the course details carefully in this excel document (soft copy) and submit this template via online submission form