

AUTOCAD BASICS

❖ PROGRAMME DESCRIPTION :

This programme intends to expose participant to the basics and fundamental techniques used in Autocad. They will learn the art of computer Aided drafting and Designing using Autocad.

❖ LEARNING OBJECTIVES :

- To understand and perform fundamental tasks using Autocad
- To get exposure to some basic and useful features available in Autocad

❖ LEARNING OUTCOMES :

Acquire competency to use some of the basic yet powerful features of Autocad effectively

Develop ability to draft and design plans including house, office and other similar building using Autocad.

❖ COURSE OUTLINES :

Following aspects will be covered in the one month programme of Autocad Basics

- Introduction to Autocad Interface
- Understand CAD
- Discuss Necessities of CAD
- Describe Various Tools
- Explain Working of CAD System

❖ COURSE DURATION:

One Month (Five days a week)

❖ COURSE FEES : 500/-

❖ PEDAGOGY :

- The soft copy of the Autocad Basic study materials shall be provided
- Each session shall begin with tutorials, followed by a question & answer session
- Take-home assignments will be given as and when required.
- The students are encouraged to use several exercise files and work along in line with the instructions provided.
- Balance between theory and Lab sessions is ensured.

❖ **CAREER PROSPECTS**

After completing this programme students who want to explore their career in under-mentioned fields shall have an additive advantage such as -

- ✓ Autocad Drafter
- ✓ Civil & Architectural Designer
- ✓ Autocad Designer:
- ✓ Autocad Structural Designer

❖ **WEEKWISE DISTRIBUTION OF TOPICS:**

Week 01:(Introduction to Interface, layers &Units)

- Getting Started, what is Autodesk Autocad, Carriers in Autocad Interface Layout (An Overview): File Creating a New Autocad File
- Layer discussed in Autodesk Autocad
- Different menus in Autocad
- Units & Accuracy Levels

Week 02 : (Selection Tools)

- How to use different tools
- Lines Tools, Construction Tools, Polyline Tools, Function keys, Rectangle Tools, Circle draw, Arc, Revision Cloud, Spline, Ellipse

Week 03 : (Some Common Commands)

- 2D Command : Trim ,Extend , Offset , Copy, Move , Mirror , Scale , Rotate , join, Stretch, zoom , Layer, Linetype, Lineweights

Week 04 : (some more useful tools)

- Break , chamfer, Multiline text, Fillet, Hatching, insert blocks, make a block, explode
- Insert block, make a block , Region ,table

Week 05 : (Assignments & Assesment)

- Make a Civil plan , plot , Dimensions, Assignments & Assesment

DAY WISE SCHEDULE					
UNITS	Day	TOPICS	THEORY - SESSION	LAB- SESSION	TOTAL HOURS
UNIT-1	Day-1	INTRODUCTION TO INTERFACE	2	0	2
	Day-2	BASICS OF AUTOCAD	1	1	2
	Day-3	MENUS IN AUTOCAD	1	1	2
	Day-4	UNITS & ACCURACY LEVELS	1	1	2
UNIT-2	Day-5	LINES TOOLS , CONSTRUCTION TOOLS, POLYLINE TOOLS, FUNCTION KEYS	1	1	2
	Day-6	RECTANGLE TOOLS, CIRCLE DRAW, ARC, REVISION CLOUD	1	1	2
	Day-7	SPLINES, ELLIPSE	1	1	2
UNIT-3	Day-8	TRIM ,EXTEND, OFFSET,COPY	1	1	2
	Day-9	MOVE,MIRROR, SCALE ,ROTATE, JOIN,STRETCH	1	1	2
	Day-10	ZOOM, LAYER, LINETYPE ,LINEWEIGHTS	1	1	2
UNIT-4	Day-11	HATCHING	1	1	2
	Day-12	INSERT BLOCKS , MAKE A BLOCKS	1	1	2
	Day-13	BREAK,CHAMFER	1	1	2
	Day-14	MULTILINE TEXT, FILLET	1	1	2
	Day-15	EXPLODE,REGION, TABLE	1	1	2
UNIT-5	Day-16	HOW TO MAKE A PLAN & MEASUREMENTS	1	1	2
	Day-17	DIMENSION & PLOT	1	1	2
	Day-18	MAKE A PLAN (CIVIL PLAN)	0	2	2
	Day-19	ASSIGNMENT	0	2	2
	Day-20	ASSESSMENT	0	2	2
Note: Though University will provide the lab facility, Participants are advised to bring their own laptop to get greater benefits.					

Class Time: 8.00 AM to 10.00 AM