COURSE : AutoCAD

AUTOCAD COURSE CONTENTS 10 MODULES

Autodesk, Inc.

AUTODESK



PREPARED BY MOHAMMED SHOUKATH ALI DME, B-TECH AND PDRAC 11+ YRS GULF EXPERIENCE



AUTOCAD COURSE CONTENTS - 10 MODULES

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10 SECTIONS				

MODULE I

SECTIONS	CONTENTS
SECTION I	BASIC INTRO - ABOUT AUTOCAD, USAGE ADVANTAGES AND APPLICATIONS ETC
SECTION 2	SYSTEM REQUIREMENTS, SOFTWARE INSTALLATION, ORGANIZING WORKSPACE
SECTION 3	WELCOME SCREEN,-APPLICATION MENU, GUI, OPEN NEW DRAWING SAVE AND SAVE AS
SECTION 4	GRID, OSNAP, ORTHO, POLAR TRACK, OSNAP TRACKING, DYNAMIC INPUT AND SNAP MODE
SECTION 5	SELECTION METHODS, WCS, UCS ABOUT AXIS'S, VIEW CUBE AND NAVIGATION BAR.
SECTION 6	ADC, PALETTES, DRAWING SHEEETS SIZES, MODEL, LAYOUT, VIEW PORTS
SECTION 7	FILE MENU, TAB RIBBON, TOOLS TAB, TEMPLATES & PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 8	SYSTEM COMMANDS, FUCTION KEYS, CONTROL KEYS AND ALT KEYS
SECTION 9	CUSTOMIZATION FROM STATUS BAR, OBJECT PROPERTIES AND ATTRIBUTES
SECTION 10	UNITS, DRAWING AREA, DRAFT SETTINGS CURSOR

SECTIONS	CONTENTS
SECTION I	BASIC 2D DRAW COMMANDS, MODIFY COMMANDS HOW TO USE IT
SECTION 2	TYPES OF LINES AND STYLES, ARC TYPES CIRCLE, TYPES
SECTION 3	DRAW BASIC GEOMETRY SHAPES-S.BOX, RECTANGLE, POLYGONS, ELLIPSE AND DONUT
SECTION 4	ORTHOGRAPHIC PROJECTION AND TYPES(FAP AND TAP), COORDINATE SYSTEM AND TYPES
SECTION 5	ABSOLUTE COORDINATE SYSTEM (WITH EXAMPLE), RELATIVE RECTANGULAR COORDINATE SYSTEM (WITH EXAMPLE) AND RELATIVE POLAR COORDINATE SYSTEM (WITH EXAMPLE)
SECTION 6	ERASE, MOVE, COPY, ROTATE (MOCORO) AND MIRROR, PAN AND ZOOM
SECTION 7	LENGTHEN AND STRETCH AND SCALE AND PRACTICE TIME –WHAT YOU LEARN DO PRACTICE.
SECTION 8	POINTS, BREAK, JOIN AND EXPLODE
SECTION 9	CHAMFER AND FILLET, OFFSET, TRIM AND EXTEND
SECTION 10	ARRAYS AND TYPES AND CONSTRUCTION LINE, RAY

SECTIONS	CONTENTS
SECTION I	BASIC HATCHING AND GRADIENTS SPECIFYING HATCH AREAS
SECTION 2	HATCHING WITH PATTERNS AND HATCHING WITH GRADIENTS
SECTION 3	DEFINING BLOCKS, INSERTING BLOCKS, EDITING BLOCKS
SECTION 4	REDEFINING BLOCKS AND WORKING WITH GROUPS AND GLOBAL BLOCKS
SECTION 5	WORKING WITH BLOCKS AND XREFS AND PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 6	SEARCHING FOR CONTENT ACROSS MULTIPLE DRAWINGS STORING CONTENT ON TOOL PALETTES
SECTION 7	REFERENCING EXTERNAL DRAWING AND IMAGES
SECTION 8	CREATING AND EDITING TEXT, CREATING TEXT STYLES, SCALE AND SPELL
SECTION 9	WRITING LINES OF TEXT AND FORMATTING PARAGRAPHS OF TEXT USING
SECTION 10	CREATING MTEXT AND EDITING MTEXT WORKING WITH ANNOTATIONS

SECTIONS	CONTENTS
SECTION I	CREATING LAYERS, ALTERING OBJECT'S LAYER VISIBILITY AND CONTROL LAYER VISIBILITY
SECTION 2	ASSOCIATE OBJECTS BY THEIR FUNCTION OR LOCATION
SECTION 3	APPLYING LINETYPE ASSIGNING PROPERTIES BY OBJECT OR BY LAYER
SECTION 4	MANAGING LAYER PROPERTIES AND ISOLATE OBJECTS AND PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 5	DEFINING ATTRIBUTES AND BLOCKS, INSERTING ATTRIBUTES BLOCKS (BATTMAN)
SECTION 6	CREATING TABLES AND EDITING TABLES STYLES
SECTION 7	USING FIELDS IN TABLE CELLS EDITING TABLE DATA
SECTION 8	MATCH PROPERTIES, BASIC PROPERTY SETTINGS AND PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 9	CONVERT TEXT TO MTEXT, BREAKLINE SYMBOL EXPLODE ATTRIBUTES TO TEXT
SECTION 10	MOVE/COPY/ROTATE, REPLACE BLOCK AND SUPER HATCH

SECTIONS	CONTENTS
SECTION I	CREATING DIMENSIONING, STYLING (D) DIMENSIONS, ADDING DIMENSIONS, EDITING DIMENSIONS AND SETTINGS
SECTION 2	CONTENTBROWSER, DIMADD, DIMATTACH DIMEDITOVERRIDES DIMEXTLINESADD
SECTION 3	QDIM, DIMBREAK, LEAD, QLEADER, MLEADER, MLEADERSTYLES, ALIGN, COLLECT AND MLEDIT
SECTION 4	QUICK ACCESS TO LAYER SETTINGS & PROPERTY SETTINGS DEFINING LINETYPES AND LINEWEIGHT
SECTION 5	PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 6	ASK QUERIES AND CLARIFY YOUR DOUBTS WITH INDUSTRY EXPEERTS
SECTION 7	PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 8	ASK QUERIESAND CLARIFY YOUR DOUBTS WITH INDUSTRY EXPEERTS
SECTION 9	PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 10	ASK QUERIES AND CLARIFY YOUR DOUBTS WITH INDUSTRY EXPEERTS

SECTIONS	CONTENTS
SECTION I	PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 2	ASK QUERIES AND CLARIFY YOUR DOUBTS WITH INDUSTRY EXPEERTS
SECTION 3	INSERTING BLOCKS WITH ATTRIBUTES, WHAT ARE ATTRIBUTES?
SECTION 4	HOW ATTRIBUTE VALUES ARE ENTERED ATTRIBUTE VISIBILITY
SECTION 5	EDITING ATTRIBUTE VALUES EDITING ATTRIBUTES ONE AT A TIME
SECTION 6	EDITING MULTIPLE ATTRIBUTE VALUES DEFINING ATTRIBUTES
SECTION 7	ATTRIBUTE DEFINITION ASSOCIATING ATTRIBUTES WITH BLOCKS
SECTION 8	REDEFINING BLOCKS WITH ATTRIBUTES UPDATING BLOCKS WITH NEW ATTRIBUTES
SECTION 9	EXTRACTING ATTRIBUTES AND PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 10	BLUE PRINTING - CREATING A PAGE SETUP OUTPUT TO PDF FILE.

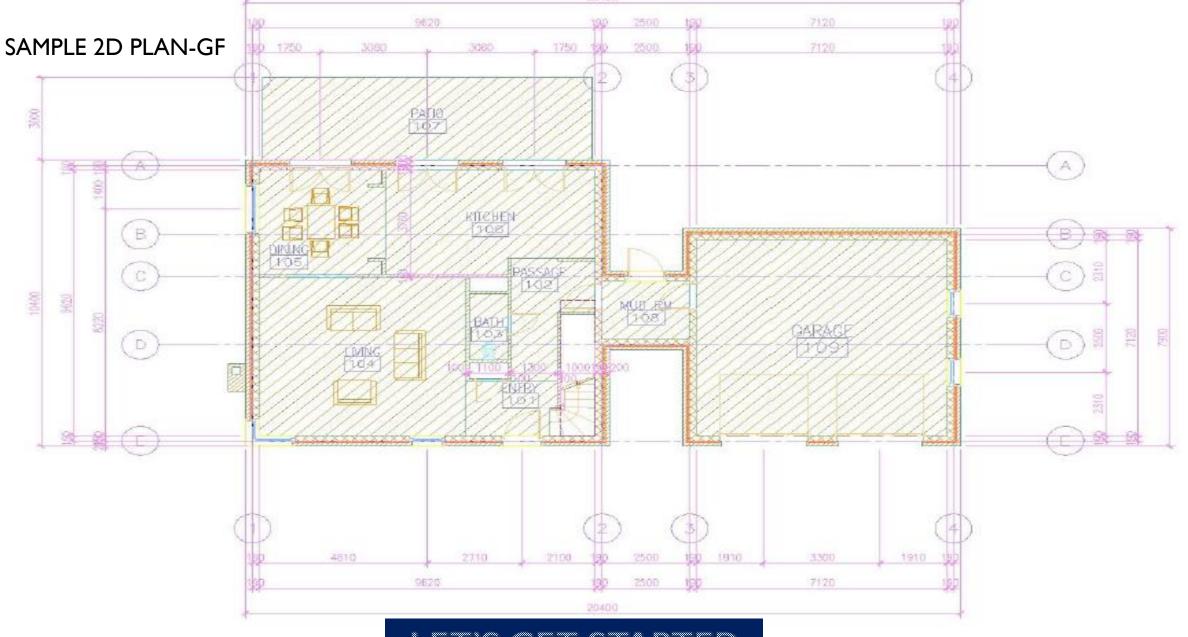
SECTIONS	CONTENTS
SECTION I	BASIC INTRODUCTION AUTOCAD 3D – APP MENU, GUI, WCS, UCS, RIBBON AND 3D CARTESIAN CORDINATES ETC.
SECTION 2	3D BASICS, 3D MODELLING (FOUR TYPES OF 3D MODELS WIREFRAME, SURFACE, MESH, AND SOLID MATERIALS, PROJECTING 3D MODEL TO LAYOUT
SECTION 3	CREATE 3D GEOMETRY SURFACES AND SOLIDS - BOX, WEDGE, CYLINDER, CONE, PYRAMID, SPHERE, TORI(TORUS) AND POLYSOLID ETC.
SECTION 4	CREATE COMPLEX 3D GEOMETRY USING WITH FOUR PRIMARY COMMANDS (EXTRUDE), (REVOLVE), (SWEEP) AND (LOFT)
SECTION 5	BOOLEAN OPERATIONS UNION, SUNTRACT AND INTERSECT
SECTION 6	3DPOLYLINE, SHELL(RECT.AND CIRCULAR), HELIX PRESSPULL , ORBIT, FREE ORBIT AND CONTINUOUS ORBIT
SECTION 7	ALIGN 3D OBJECTS MOVE, COPY, ROTATE, SCALE, SLICE, MIRROR AND ARRAY OBJECTS IN 3D
SECTION 8	SEPARATE, SPLIT AND SMOOTH OBJECTS, MOVING UCS ORIGIN AND MOVING UCS TO A FACE
SECTION 9	PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 10	ASK QUERIES AND CLARIFY YOUR DOUBTS WITH INDUSTRY EXPEERTS

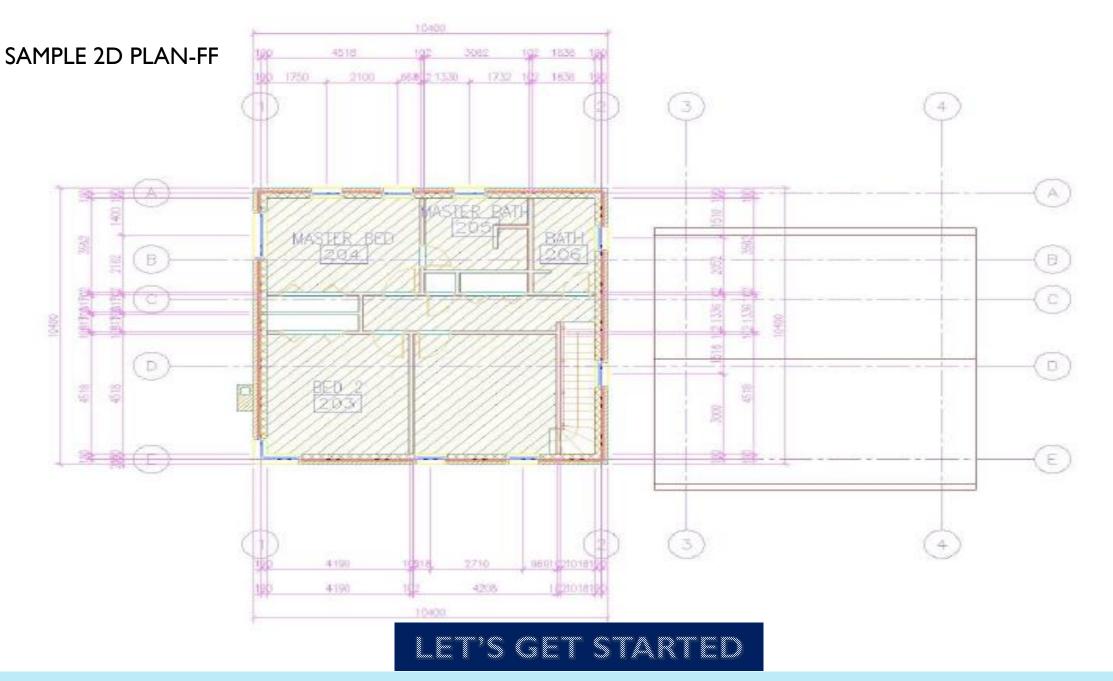
SECTIONS	CONTENTS
SECTION I	CREATE SOLID BLOCKS, EDIT PROPERTIES AND MODIFY SIZE, SHAPE, THICKNESS AND COLOR ETC.
SECTION 2	CHANGE WORK PLANE DYNAMIC UCS, XY PLANE, YZ PLANE AND ZX PLANE AND ISOMETRIC VIEW ETC.
SECTION 3	FILLETS AND CHAMFRS ON 3D SOLIDS AND ADDING PROJECTED VIEWS (4 ORTHOGRAPHIC AND 4 ISOMETRIC)
SECTION 4	CONVERT 2D OBJECTS TO SURFACES, CONVERT SOLIDS TO SURFACES AND CONVERT SURFACES TO SOLIDS
SECTION 5	CREATE SECTION PLANE, SECTION BOUNDARY AND SECTION VOLUME ETC.
SECTION 6	CREATING MULTIPLE VIEWPORTS, CREATE TECHNICAL DRAWING FLATSHOT, 3D NAVIGATION ETC.
SECTION 7	CREATE ANIMATING AND SHOW MOTION SHOTS, WALK, FLY, CAMERA IN AUTOCAD 3D
SECTION 8	3D MODEL IMPORTS AND AUTOMATIC MODEL DOCUMENTATION
SECTION 9	PRACTICE TIME – WHAT YOU LEARN DO PRACTICE.
SECTION 10	ASK QUERIES AND CLARIFY YOUR DOUBTS WITH INDUSTRY EXPEERTS

SECTIONS	CONTENTS
SECTION I	DESIGN A PROJECT- 4BHK LUXURY VILLA (2D PLAN, ELEVATION AND SECTIONS AND DETAILS)
SECTION 2	SET UNITS, DRAWING AREA / SPACE, CRAETE A BOUNDARY FOR REFERENCE, SET GRIDS AS PER AREA OF PROJECT
SECTION 3	CREATE O/S WALLS, I/S WALLS , STAIR , ELEVATORS CORE WALLS AND PARTITIONS KIDSPLAYZONE, GARDEN AND PARKING ETC.
SECTION 4	CREATE DOORS(DIFF.TYPES) WINDOWS(DIFF.TYPES) VENTLATORS, FLOORING FALSE CEILING (RCP) DETAILS ETC.
SECTION 5	ADD FURNURE AND HOME APPLIANCES, ALL BEDROOMS BEDS, KITCHEN COOK AREA AND CABINETS
SECTION 6	INSERT BATHROOMS AND WASHROOMS PLUMBING FIXTURES , WATER HEATERS AND ACCESSORIES ETC
SECTION 7	ANNOTATION FOR ROOMS ASSIGN NAME AS PER USAGE AND DIMENSIONING ALL ROOMS AND OBJECTS
SECTION 8	HATCHING FOR WALLS AND FLOORING ACCORDING TO SPACE LOCATION(SOLID HATCH OR GRADIENT HATCH)
SECTION 9	CREATE FRONT ELEVATIONS, STAIRCASE AND (LIFTS)ELEVAORS SECTIONS AND SECTIONS IN BOTH X AND Y AXIS
SECTION 10	CREATE BASIC STRUCTURAL DESIGN PLAN AND ELEVATIONS AND SECTION DETAILS (LIKE FOUNDATION(C-BEDS, FOOTINGS PLINTH BEAM) GL BACKFILLING SUBSTRUCTURE, SUPER STRUCTURE AND LINTEL BEAMS COLUMNS AND UNDER SLAB BEAMS)AND SLABS/ROOF ETC.

SECTIONS	CONTENTS
SECTION I	PROVIDE / INSERT ALL MEP BASIC REQUIREMENTS (SUCH AS POWER, LIGHTING, ELECT ROOMS PANELS MCC, MDB, DB CABLE TRAYS AND CONDUITS ETC. HVAC EQUIPMENTS ROOMS AND AIR DISTRIBUTION SYSTEM, FIRE FIGHTING- (SPRINKLERS. FIRE EXTINGUISHERS, FHC, LV,, HYDRANTS) FIRE ALARM, PA, CCTV SYSTEMS, DRAINAGE SYSTEM AND WATER SUPPLY PIPNG AND ALL NECESSARY PUMPING SYSTEM ETC.
SECTION 2	SURFACES((EXTERNAL OUTER LAYER PROTECTION-PROTECT STRUCTURE FROM WEATHERING) FINISHES(PLASTER AND PAINTS) TO MAKE THEM AESTHETICALLY BEAUTIFUL, DURABILITY AND PLEASING APPEARANCE)
SECTION 3	CREATE LAYERS TABLE (LIST) AND LEGENDS, GENERAL NOTES, PREPARED BY, CHECK BY, REVIEW BY, APPROVED BY PROJ. DATE, CONTRACTOR NAME, ARCHITECT, CONSULTANT NAME ETC.
SECTION 4	CREATE LAYOUT, FPROJECT TITLE, CLIENT NAME, DWG SCALE,UOM, PROJECTION NAME AND SYMBOL
SECTION 5	EXPORTING DWF OR PDF FILES, AUTODESK DESIGN REVIEW
SECTION 6	VIEWING MARKUPS IN AUTOCAD, PUBLISHING DRAWING SETS
SECTION 7	OUTPUT FOR ELECTRONIC REVIEW, PLOTTING ELECTRONIC FILES
SECTION 8	PRINTING AND PLOTTING CREATING PLOT STYLE TABLES
SECTION 9	PLOTTING IN MODEL SPACE PLOTTING IN LAYOUTS IN PAPER/SHEETS SPACE
SECTION 10	EXPORTING TO AN ELECTRONIC FORMAT (EMAIL) SHARE BY LAN, FORWARD BY DRIVE ETC.

LET'S GET STARTED





TO LEARN AUTOCAD PRE REQUIREMENTS AND **DESKTOP / LAPTOP CONFIGURATION :**

System requirements for AutoCAD 2024 including Specialized Toolsets (Windows)

64-bit Microsoft® Windows® 11 and Windows 10 version 1809 or above. See Autodesk's Product Support Lifecycle for support information. Operating System

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Processor Basic: 2.5-2.9 GHz processor (base) ARM Processors are not supported. Recommended: 3+ GHz processor (base), 4+ GHz (turbo)

Memory	Basic: 8 GB Recommended: 32 GB
Display	Conventional Displays:
Resolution	1920 x 1080 with True Color
	High Resolution & 4K Displays:
	Resolutions up to 3840 x 2160 (with "Recommended" display car

Display Card

Basic: 2 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant Recommended: 8 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant

DirectX 12 with Feature Level 12_0 is required for Shaded(Fast) and Shaded with edges(Fast) visual styles. Please be sure to use the latest video card manufacturer drivers from their website

Note: AutoCAD uses your computer's display card for a variety of essential graphics operations including but not limited to view manipulation, line smoothing, and text/linetype generation. It is recommended that you have a display card with dedicated VRAM to support these operations at optimal speeds.

Disk Space 10.0 GB (suggested SSD)





Contoso (LTE





6:18 Saturday, June 18

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- COURSE DURATION : 5 WEEKS
- TIMINGS : 2 HRS DAILY (AS PER YOUR COMFORT)
- COURSE COST : 10,000/= INR (INDIA) & 500 SAR (KSA)



VISIT OUR WEBSITE FOR MORE INFORMATION

THANK YOU..!

LET'S GET STARTED WELCOME AND HAPPY LEARNING.