

Lesson Planning for the semester starting w.e.f. 8.01.2019

MKM Girls Polytechnic college,Hodal (District Palwal)

Name of the Faculty: Rachna Dohan (Practical)

Discipline: Architecture Assistantship

Semester: 4th

Subject: COMPUTER APPLICATIONS IN ARCHITECTURE-I

Lesson Plan Duration: 15 weeks (from January, 2019 to April, 2019)

Work Load (Lecture/ Practical) per week (in hours): Practical- 04

Week	Practical	
	Practical day	Topic
1 st	1 st	Introduction to AutoCAD (Latest version)
	2 nd	• Input devices
	3 rd	• Graphics
	4 th	• Starting AutoCAD
2 nd	5 th	• Inside the drawing editor
	6 th	• Commands in the menus (Tool bars)
	7 th	• Accessing Commands
	8 th	• Entity selection
3 rd	9 th	• Entering coordinates
	10 th	• Folders for organizing drawings and files Exercise: Creating folders and sub folders
	11 th	Creating and Saving a new Drawing
	12 th	• Commands and options to create new drawings
4 th	13 th	• Units
	14 th	• Limits

	15 th	<ul style="list-style-type: none"> • Snap
	16 th	<ul style="list-style-type: none"> • Grid
5 th	17 th	<ul style="list-style-type: none"> • Ortho
	18 th	<ul style="list-style-type: none"> • Layer
	19 th	<ul style="list-style-type: none"> • Application of layers
	20 th	<ul style="list-style-type: none"> • Open a new, existing drawing
6 th	21 st	<ul style="list-style-type: none"> • Save, save as, quit, close, exit
	22 nd	<ul style="list-style-type: none"> • Customization of tool bars <p>Exercise: Setting up a new drawing with units, limits etc</p>
	23 th	Drawing Commands
	24 th	<ul style="list-style-type: none"> • Line
7 th	25 th	<ul style="list-style-type: none"> • Poly line/Double line.
	26 th	<ul style="list-style-type: none"> • Arc
	27 th	<ul style="list-style-type: none"> • Ellipse
	28 th	<ul style="list-style-type: none"> • Polygon
8 th	29 th	<ul style="list-style-type: none"> • Rectangle
	30 th	<ul style="list-style-type: none"> • SP line
	31 st	<ul style="list-style-type: none"> • Circle
	32 nd	<ul style="list-style-type: none"> • Sketch.
9 th	33 rd	<ul style="list-style-type: none"> • Hatch
	34 th	<ul style="list-style-type: none"> • Donuts <p>Exercise: Making a composition of different geometrical shapes using various drawing commands</p>
	35 th	<p>Viewing an Existing Drawing</p> <ul style="list-style-type: none"> • Zoom • Pan • Redraw and Regen all • Regen Auto • View

	36 th	Modifying an Existing Drawing <ul style="list-style-type: none"> • Undo Redo/Oops • Trim • Move • Offset • Rotate
10 th	37 th	<ul style="list-style-type: none"> • Array • Stretch • Divide • Champher • Erase • Break • Copy, multiple copy • Mirror (Mirror test) • Change (change properties)
	38 th	<ul style="list-style-type: none"> • Extend • Explode • Blip mode • Scale ▪ Fillet
	39 th	Making and Inserting Blocks
	40 th	<ul style="list-style-type: none"> • Blocks • Insert block • Base
11 th	41 st	<ul style="list-style-type: none"> • Using library for blocks • W-block • X-ref • Explode <p>Exercise: Inserting furniture, fixtures, trees etc. in the plans, sections and elevations made in section 5.</p>
	42 nd	Dimensioning and Text
	43 rd	<ul style="list-style-type: none"> • Dimension type, style, units
	44 th	<ul style="list-style-type: none"> • Dimension utilities
12 th	45 th	<ul style="list-style-type: none"> • Dimension variables
	46 th	<ul style="list-style-type: none"> • Dimensioning of different elements like (Horizontal, vertical, inclined).
	47 th	Arc. Circle Radius, diameter), continuous dimensioning etc.
	48 th	<ul style="list-style-type: none"> • Editing dimension text and updating (adding new text and editing existing text)
13 th	49 th	<ul style="list-style-type: none"> • Text style – font types, height, width factor etc. as per plotting

		paper size.
	50 th	Exercise: Dimensioning and editing text in composition made in Sections 5 and 6.
	51 st	Plotting Drawings
	52 nd	<ul style="list-style-type: none"> • Plot command
14 th	53 rd	<ul style="list-style-type: none"> • Selecting area for plotting
	54 th	<ul style="list-style-type: none"> • Scale of plot, scale to fit
	55 th	<ul style="list-style-type: none"> • Selecting plotting device
	56 th	<ul style="list-style-type: none"> • Selecting paper size and type
15 th	57 th	<ul style="list-style-type: none"> • Selecting black and white or colored plots
	58 th	<ul style="list-style-type: none"> • Selecting appropriate print speed, quality
	59 th	<ul style="list-style-type: none"> • Print preview
	60 th	<ul style="list-style-type: none"> • Working in Paper space and plotting