## Kurigram Polytechnics Institute, Kurigram Semester plan Course name: Computer Aided Drafting (8742)

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No. of	No. of	General Objective	Specific Object	Remark s
week	Class	Set up the drawing environme nts and	<ul> <li>Start a CAD package and identify the different areas of CAD graphic screen.</li> <li>Use menu bar, command prompt area, toolbar and drawing aids.</li> </ul>	
1	2	drawing aids.	<ul> <li>Use the drawing aids, different menus and dialog boxes of CAD package.</li> <li>Save the drawing &amp; exit from the file.</li> </ul>	
	1	Construct the geometric al shape or object.	<ul> <li>Use the command to draw Line using Cartesian and Polar co-ordinate system.</li> <li>Draw single and multiple points using point commands.</li> <li>Draw straight and angular line using line</li> </ul>	
2	2	c. czjecu	commands.  Connect lines, arcs etc. using snap command.  Erase the object using different erase commands.	
	1	Construct the rectangle, circle,	<ul> <li>Draw rectangle using rectangle commands.</li> <li>Draw circles using different method of circle commands.</li> </ul>	
3	2	polygon, poly line etc.	<ul> <li>Draw polygon using different method of polygon commands.</li> <li>Draw poly line using poly line</li> </ul>	
	3		commands.  Draw poly line and arc together using poly line commands.  Draw different thickness of poly line using poly line commands	

			D
		<ul> <li>Construct</li> </ul>	<ul> <li>Draw ellipse using center and axis</li> </ul>
		the	method commands.
		ellipse,	<ul> <li>Draw arc using different commands of</li> </ul>
	1	arc,	arc.
4			Donath and the formation of the second of th
		donut,	S S S S S S S S S S S S S S S S S S S
		offset,	<ul> <li>Draw lines in certain distance using</li> </ul>
		array etc.	offset commands.
	2		<ul> <li>Duplicate an object in a fixed number &amp;</li> </ul>
			fixed distance using the rectangle array
			commands.
			D. Professor History Co. Leavel at 0
	2		
	3		rotating distance using the polar array
			commands.
		<ul> <li>Construct</li> </ul>	<ul> <li>Draw ray in a certain angular distance</li> </ul>
		ray,	using ray command.
	1	chamfer,	<ul> <li>Use chamfer &amp; fillet in a given figure.</li> </ul>
		fillet,	Use different lengthen command in a
_		•	given line.
5		lengthen,	
		hatch,	<ul> <li>Fill the drawing areas of an object using</li> </ul>
		stretch	different pattern of hatch command.
	2	and scale	<ul> <li>Use stretch command to extend an</li> </ul>
		etc.	area.
			<ul> <li>Use scale command to enlarge or</li> </ul>
	2		reduce an object in a ratio.
	3		roddoo arr objoot iir a ratio.
		Edit and	Select and delete the object in various
	1		methods.
		modify the	
		object.	Duplicate the object using copy.
			<ul> <li>Use trim command in a given drawing.</li> </ul>
	2		<ul> <li>Use the extend command in a given</li> </ul>
			drawing.
			<ul> <li>Use mirror command to create duplicate</li> </ul>
6			reverse copy.
			<ul> <li>Break the line using break command.</li> </ul>
	3		Rotate the object in different angle
			/direction using rotate command.
		_	
	1	<ul> <li>Set-up the</li> </ul>	<ul> <li>Fix-up the units using units command.</li> </ul>
		units,	<ul> <li>Fix-up the drawing limits using limits</li> </ul>
		limits,	command.
		layer.	<ul> <li>Select the layer control option.</li> </ul>
		14,511	<ul> <li>Create the name of a layer and make it</li> </ul>
7	2		•
'			current.
			<ul> <li>Use freeze, lock option of the layer.</li> </ul>
	3		<ul> <li>Set the color, line type &amp; line weight for</li> </ul>
			different layer.

8	2 3	Set-up the dimension style and dimension ing.	<ul> <li>Set-up the dimension style using dimension style manager.</li> <li>Fix-up the dimension style using modify dimension style.</li> <li>Fix-up the units, dimension lines and arrows, text, leader &amp; annotations etc.</li> <li>Put dimension in the object using linear, angular, radius, diameter, ordinate, align, center mark, continuous, base line commands.</li> <li>Edit dimension.</li> </ul>	
9			Class test ,quize test and Mid semester Examination	
10	1	Set-up the Text style.	<ul> <li>Set the text style using text style commands.</li> <li>Fix-up the text height &amp; font using text style commands.</li> <li>Select the text justification using text style command.</li> </ul>	
	2		<ul> <li>Write text by using dtext and multiple text commands.</li> <li>Edit the text in a given drawing.</li> <li>Insert text in CAD from other software (i.e. MS Word, Excel etc).</li> </ul>	
	1	Prepare a drawing in different	<ul> <li>Draw a given floor plan of a building using various commands.</li> <li>Draw an elevation of the building using</li> </ul>	
11	2	layer using Auto CAD.	various commands.  Draw the section of the building using various commands.  Put dimension & write the text or annotation on the floor plan & section.  Create a folder & Save the drawing.	
12	1 2 3	Prepare     the 3D     objects in     Auto CAD.	<ul> <li>Create simple 3D object in auto CAD.</li> <li>Draw isometric view using snap &amp; is plan command.</li> <li>Create 3D surface by using 3D poly Edge surf, Rule surf, Tab surf &amp; Mesh.</li> <li>Edit / draw 3D object using polar coordinate system.</li> <li>Edit 3D object using different editing command i. e. align, rotate 3D, array 3D, mirror 3D, move, chamfer, fillet, trim etc.</li> </ul>	

	1	Modify/Edi t the 3D objects in	<ul> <li>Create 3D surface/object by using extrude.</li> <li>Edit 3d object using union command</li> </ul>	
13	2	Auto CAD.	<ul> <li>Draw 3d object using revolve command.</li> <li>Edit / draw 3D object using intersect command.</li> </ul>	
	3		Edit 3D object using subtract command.	
		<ul> <li>Set the</li> </ul>	<ul> <li>Create layout for plot.</li> </ul>	
	1	Layout	<ul> <li>Set up the scale &amp; assign pen (if</li> </ul>	
		and plot	necessary) for plot.	
14	2	the drawing.	<ul><li>Select the paper &amp; plotter for plotting.</li><li>Plot the drawing.</li></ul>	
14		drawing.	<ul> <li>Set various drawing in different scale in</li> </ul>	
			a paper through layout.	
	3		<ul> <li>Set the environment for plotting.</li> </ul>	
			<ul> <li>Set the drawing at PDF format.</li> </ul>	
15 & 16			Class test ,Quize test, Extra class and Semester Final Examination.	