

Kurigram Polytechnics Institute, Kurigram

Semester plan

Course name : (**8752**) **CAD & Digital Visualization**

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No. of week	No. of Class	General Objective	Specific Object	Remarks
1	1	Understand presentation drawing.	1.1 Define presentation drawing 1.2 List the names of drawings under the set of a presentation drawing. 1.3 Discuss the scale of presentation drawing.	
2	2	Understand presentation drawing.	1.4 List the names of drawings under a RAJUK sheet. 1.5. Explain how to calculate FAR	
3	1	Understand working drawing.	2.1 Define working drawing. 2.2 List the names of drawings under the set of a working drawing.	
4	2	Understand working drawing.	2.3 Discuss the scale of working drawing.	
5	1	Understand detail drawing.	3.1 Define detail drawing. 3.2 List the names of drawing under the set of a detail drawing.	
	2	Understand detail drawing.	3.3 Discuss the scale and indication system of detail drawing.	
4	1	Understand structural drawing.	4.1. State the meaning of R.C.C drawing. 4.2. Identify different types of R.C.C works	
	2	Understand structural drawing.	4.3. Discribe different types of R.C.C.column, footing and slab, beam and,lintel.	
5	1	Understand the use of plumbing drawing (sanitary fittings and fixtures).	5.1 Identify different types of sanitary fixture and fittings used in building. 5.2 Describe the function and location of underground and overhead water reservoir of a building.	
	2	Understand the use of plumbing drawing (sanitary fittings and fixtures).	5.3 Mention the function and location of septic tank.	
6	1	Understand the aspects of electrical drawing.	6.1 Identify different types of electrical wiring.	
	2	Understand the aspects of electrical drawing.	6.2 List the electrical fittings used in building.	
7	1	Understand the aspects of electrical drawing.	6.3 Identify the symbols used in electrical wiring diagram.	
8&9			Class test ,quize test .	
	2	Understand the aspects of electrical drawing.	6.3 Identify the symbols used in electrical wiring diagram.	
10	1	Understand the perspective view with rendering	7.1 Explain how to creating perspective view.	

		lighting & imaging in auto CAD.	7.2 Describe the rendering and materials effect in 3D. 7.3 Describe the uses & set up of background in 3D. 7.4 Describe the lighting & shadow in 3D. 7.5 Explain how to print 3D view.	
	2	Explain the auto CAD relationship with corel draw & Adobe Photoshop.	8.1 Explain the necessity to use corel draw & Photoshop. 8.2 Explain about export. 8.3 Explain how to import view from auto CAD to corel draw. 8.4 Explain how to import view form auto CAD in Photoshop	
11	1	Understand the auto CAD relationship with 3D studio MAX.	9.1 Explain the necessity to use 3D studio max. 9.2 Describe auto CAD object types & how to import auto CAD block in 3D studio max.	
	2	Understand the auto CAD relationship with 3D studio MAX.	9.3 Describe smoothing & welding of 3D object / block. 9.4 Describe conversion of auto CAD to 3D studio.	
12	1	Understand the basic Hardware & Software issues.	10.1 Identify the image file format. 10.2 Distinguish between the digital output and digital input.	
12	2	Understand the basic Hardware & Software issues.	10.3 Explain the terms Vector and raster.	
13	1	Understand the Digital Techniques.	11.1 Illustrate a digital camera and their uses. 11.2 Differentiate between film and film less cameras. 11.3 Classify the types of film less cameras. 11.4 Define scanner and pixel. 11.5 Describe digital 3D model. 11.6 Describe the modeling decisions: accuracy, detail and complexity.	
	2	Understand the Storage Archiving. Data and	12.1 Identify the different options of storing large files. 12.2 Describe the advantages and disadvantages of storing files on a CD ROM, USB drive, DVD drive, Tape drive, web based data back up. 12.3 Explain the necessity of back up and archive data. 12.4 Explain the methods can be applied to archive data.	
14, 15, 16			Class test ,Quiz test, Extra class and Semester Final Examination.	

