Republic of Iraq

Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Apparatus

College: Shatt Al-Arab University

Department: Civil Engineering college

Stage:1nd stage

Lecturer name: khalid alkharsan

Academic title: Assistant teacher

Course Weekly Outline

Name	Khalid Taher Habeeb
E-mail address	Khalid.Tahir@sa-uc.edu.iq
Course name	Engineering Drawings
Course objective	1. The Course Objective to enable the students to identify the tools/instrument needed. 2. To familiarize the student, with the proper techniques, manipulation, uses, and care of the drawing instruments. 3. To introduce the students to a specific language of engineers which is a graphical language. 4. To help and guide the students to learn how technical drawings can be drawn in different methods. 5. To acquire some different skills such as the ability to read and prepare engineering drawings, the ability to make free-hand sketching of objects, the power to imagine, analyze, and communicate, and the capacity to understand other subjects. 6. To acquire adequate skills in measuring/scaling dimension accurately, and the method of placing dimensions. 7. To acquire basic analysis skills in orthographic/section/isometric drawing To know the proper drawing conventions/symbols to describe the engineering drawings.
Course description	1. Get information about the important tools for engineering drawing. This will give student basic knowledge of technical drawings professions and means of communications to others. 2. Knowing the types of lines and their applications in technical drawings. 3. Learning the steps to construct different geometric figures like lines, arcs, polygon, ellipse etc. which is essential for engineer. 4. Comprehend general projection theory, with emphasis on orthographic projection to represent three-dimensional objects in two-dimensional views. 5. Develop student's imagination and ability to represent the shape size and specifications of physical objects. 6. Learning how to draw sectional views.

	7. Knowing how to place dimensions on engineering drawings. Equipped with the skill that enables the students to convert orthographic projection into isometric projection.			
References	الرسم الهندسي المؤلف: عبدالرسول الخفاف بغداد – 1990			
External sources	The Fundamentals of Engineering Drawing & Graphic Technology, Fifth Edition Thomas E. French & Charles J. Vierck			
Course assessment	**Lab.مرسم**	**Quizzes and assessment**	**Mid-term exam**	**Final exam**
	10	**30**	**10**	**50**
General notes	-			

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Course Weekly Outline

Week No.	Theoretical	Experimental	Aims
1		Introduction to engineering drawing and graphic instruments and their uses	2. To familiarize the students with the proper techniques, manipulation, uses, and care of the drawing instruments. 3. To introduce the students to a specific language of engineers which is a graphical language. 4. To help and guide the students to learn how technical drawings can be drawn in different methods. 5. To acquire some different skills such as the ability to read and prepare engineering drawings, the ability to make free-hand sketching of objects, the power to imagine, analyze, and communicate, and the capacity to understand other subjects. 6. To acquire adequate skills in measuring/scaling dimension accurately, and the method of placing dimensions. 7. To acquire basic analysis skills in
2		Exercises in the use of instruments	
3		Graphic geometry I	
4		Graphic geometry II	
5		Graphic geometry III	
6		Orthographic Projection I	
7		Orthographic Projection II	
8		Orthographic Projection III	
9		Sectional Views I	
10		Sectional Views II	
11		Dimensioning Practices (introduction, terminology and conventions)	

12		Introduction to types of Pictorial Drawing	
13		Isometric Drawing I	
14		Isometric Drawing II	
15		Isometric Drawing III	