Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Authority Department of Quality Assurance and Academic Accreditation

Academic Program Description Form for Colleges and Institutes Academic Year

University: Shatt Al-Arab College/Institute: Engineering Scientific Department: Civil

Date of Form Completion: 01/09/2024

Signature

Asst. Lecturer Nabeel Najm Abdullah

Name of Head of Department:

Signature

Name of Scientific Assistant: Dr. Jawad Kadhim

Reviewed by:

Quality Assurance and University Performance Division Name of Division Director: Dr. Jasem Mohsen Yasser

Signature:

ا.م.د.احسان فاسم محمد عمید کلیة الدندسة

Dean's Approval

MODULE DESCRIPTION FORM

Module Information معلومات المادة الدراسية						
Module Title	Eng	ineering Drawin	gs	Modu	ıle Delivery	
Module Type		Core			Theory	
Module Code		E118			Lecture □ Lab □ Tutorial	
ECTS Credits		8				
SWL (hr/sem)	120		☐ Practical ☐ Seminar			
Module Level		1	Semester of Delivery		y	2
Administering Dep	partment	Type Dept. Code	College Type College Code			
Module Leader	Jawad Khazim		e-mail			
Module Leader's A	Acad. Title	Lecturer	Module Leader's Qualification		alification	PH.D.
Module Tutor			e-mail E-mail			
Peer Reviewer Name		Name	e-mail E-mail			
Scientific Committee Approval Date		01/09/2024	Version Nu	mber	1.0	

Relation with other Modules	
العلاقة مع المواد الدراسية الاخرى	

Prerequisite module	None	Semester						
Co-requisites module	None	Semester						
Modu	Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الارشادية							
Module Aims أهداف المادة الدر اسية	 To enable the students to identify the tools/instrument needed. To familiarize the student, with the proper techniques, manipulation, uses, and care of the drawing instruments. To introduce the students to a specific language of engineers which is a graphical language. To help and guide the students to learn how technical drawings can be drawn in different methods. 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. To acquire adequate skills in measuring/scaling dimension accurately, and the method of placing dimensions. To acquire basic analysis skills in orthographic/section/isometric drawing To know the proper drawing conventions/symbols to describe the engineering drawings. 							
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 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. Knowing the types of lines and their applications in technical drawings. Learning the steps to construct different geometric figures like lines, arcs, polygon, ellipse etc. which is essential for engineer. Comprehend general projection theory, with emphasis on orthographic projection to represent three-dimensional objects in two-dimensional views. Develop student's imagination and ability to represent the shape size and specifications of physical objects. Learning how to draw sectional views. Knowing how to place dimensions on engineering drawings. Equipped with the skill that enables the students to convert orthographic projection into isometric projection. 							

Indicative Contents المحتويات الارشادية	Introduction to Engineering Drawing, Drawing Tools, Pencils, Drawing Sheets, Title Block of a Sheet, Types of Lines and their Uses. (10 hrs) Exercises in the Use of Instruments: Straight lines (Solid, Dashed and Center Lines), Circles and Tangents. (10 hrs) Graphic Geometry: Bisections, Parallels, Divisions, Angles, Geometric Shapes Tangents (Straight and Curved Lines), Ellipse. (30 hrs) Orthographic Projection: Theory, Orthographic Views, Representation of
	Lines, Hidden Features, Center Lines. Precedence of Lines, Exercises in Projection. (30 hrs) Sectional Views: Definition, Classification, Full and Half Sections, Exercises in Sectional Views. (20 hrs) Dimensioning Practices: Introduction, Terminology and Conventions, Exercises in Dimensioning. (10 hrs) Introduction to Types of Pictorial Drawing: Pictorial Methods Classified, Isometric. (10 hrs) Isometric Drawing: Perspective Drawing, Sketching, Layout of Circles, Exercises in Isometric Drawings. (30 hrs)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم					
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time				

Student Workload (SWL)						
سبو عا	الحمل الدراسي للطالب محسوب لـ 15 اسبوعا					
Structured SWL (h/sem) Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل						
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	108	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7.7			
Total SWL (h/sem) 250 الحمل الدراسي الكلي للطالب خلال الفصل						

Module Evaluation

تقييم المادة الدراسية

		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	5,10	1,2,3,4,5,6
				2,3,4,5,6,7,	
	Assignments	12	15% (15)	9,10,11,12,13	1,2,3,4,5,6,7,8
Formative				,14	
assessment				1,2,3,4,5,6,7,	
	Projects / Lab.	15	15% (15)	8,9,10,11,12,	1,2,3,4,5,6,7,8
				13,14,15	
	Report				
Summative	Midterm Exam	2 hr	10% (10)	8	1,2,3,4,5
assessment	Final Exam	2hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	Introduction to engineering drawing and graphic instruments and their uses			
Week 2	Exercises in the use of instruments			
Week 3	Graphic geometry I			
Week 4	Graphic geometry II			
Week 5	Graphic geometry III			
Week 6	Orthographic Projection I			
Week 7	Orthographic Projection II			
Week 8	Orthographic Projection III			
Week 9	Sectional Views I			
Week 10	Sectional Views II			
Week 11	Dimensioning Practices (introduction, terminology and conventions)			
Week 12	Introduction to types of Pictorial Drawing			
Week 13	Isometric Drawing I			
Week 14	Isometric Drawing II			
Week 15	Isometric Drawing III			
Week 16	Preparatory week before the final Exam			

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1				

Learning and Teaching Resources مصادر التعلم والتدريس				
Text Library?				
Required Texts	الرسم الهندس المؤلف: عبدالرسول الخفاف بغداد – 1990	Yes		
Recommended Texts	The Fundamentals of Engineering Drawing & Graphic Technology, Fifth Edition Thomas E. French & Charles J. Vierck	No		
Websites		1		

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
C	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group (50 - 100)	C - Good	ختر	70 - 79	Sound work with notable errors		
(30 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب)قيد المعالجة((45-49)	More work required but credit awarded		
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required		

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.