

MODULE DESCRIPTION FORM

نموذج وصف المادة الدر اسية

Module Information معلومات المادة الدر اسية						
Module Title	Engineering Drawing			Modu	Module Delivery	
Module Type						
Module Code			Class Lecture Lab			
ECTS Credits				Practical		
SWL (hr/sem)						
Module Level		1	Semester o	Delivery 2		2
Administering Department		Type Dept. Code	College	COGTEK		
Module Leader	Rasha Sabah Aweid		e-mail	Rashas	Rashasabah@ntu.edu.iq	
Module Leader's Acad. Title		Assistant lecturer	Module Leader's Qualification		alification	Ms.D.
Module Tutor	Name (if available)		e-mail	E-mail		
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/06/2023	Version Nu	nber 1.0		

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module	None	Semester			
Co-requisites module	None	Semester			

Module Aims, Learning Outcomes and Indicative Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدر اسية	 Lectures. Assigning students to do homework or writing research papers so that students can acquire self-learning and presentation skills. Take sudden exams. Conducting semester and final exams at the specified dates. Inform students about how grades are calculated for students during the semester. Providing textbooks and help books that they need in the vocabulary of the course. Demonstrations such as: the smart board 			
Module Learning Outcomes مخرجات التعلم للمادة الدر اسية	 A- Cognitive goals 1. Broad education to understand the impact of engineering solutions globally and economically. 2. Ability to work in multidisciplinary teams. 3. The possibility of applying cognitive sciences such as mathematics, pure sciences and engineering 4. The ability to use the techniques, skills and tools of contemporary engineering in the engineering field. 5. The ability to design systems to meet the required needs through realistic determinants in terms of economics 6. The possibility of designing and implementing experiments, analyzing the results and translating them into reality. 			
Indicative Contents المحتويات الإرشادية	 Emotional and value goals 1. The ability to make decisions 2. Methods of innovation among students 3. The student's ability to think 4. Collecting the data required to accomplish a specific subject.and their solutions. Time response (natural and step responses) 			

Learning and Teaching Strategies				
استر اتيجيات التعلم والتعليم				
Strategies	Lectures Graduation projects Creative thinking among students and keeping up with the latest scientific methods available in teaching and learning.interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.			

Student Workload (SWL) الحمل الدر اسي للطالب محسوب لـ ١٥ اسبو عا					
Structured SWL (h/sem) 80 Structured SWL (h/w) 5.3 الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل 5.3					
Unstructured SWL (h/sem) الحمل الدر اسي غير المنتظم للطالب خلال الفصل	120	Unstructured SWL (h/w) الحمل الدر اسي غير المنتظم للطالب أسبو عيا	8		
Total SWL (h/sem) 200 الحمل الدر اسي الكلي للطالب خلال الفصل					

Module Evaluation							
تقييم المادة الدراسية							
		Time/Nu	Weight (Marks)	Week Due	Relevant Learning		
		mber	Weight (Walks)	Week Due	Outcome		
	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11		
Formative	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7		
assessment	Projects / Lab.	1	10% (10)	Continuous	All		
	Report	1	10% (10)	13	LO # 5, 8 and 10		
Summative	Midterm Exam	2 hr	10% (10)	7	LO # 1-7		
assessment	Final Exam	2hr	50% (50)	16	All		
Total assessme	ent		100% (100 Marks)				

Delivery Plan (Weekly Syllabus)				
المنهاج الأسبوعي النظري و العملي				
	Material Covered			
Week 1	Introduction to engineering drawing.			
Week 2	Setting up a drawing, setting the drawing units, drawing limits			

Wook 2	The line command, coordinates in Auto CAD, orthogonal mode, polar tracking, snap
vveek 5	settings, object snaps
Week 4	Drawing commands: circle, arc, polyline, rectangle, ellipse, and polygon.
Week F	view of drawing: panning, the zoom command, named views, user coordinate systems,
Week J	isometric drawing
	Editing a drawing: selecting objects, erasing objects, moving objects, copying objects,
Week 6	rotating objects, scaling objects, mirror command, array command, offsetting objects,
	breaking objects, creating chamfered corners, creating rounded corners.
Week 7	Organizing drawings with layers, colors, line types, and line weights
Week 8	Drawing dimensions
Week 9	Geometrical construction
Week 10	Orthographic projection
Week 11	Pictorial drawing
Week 12	Sectional view
Week 13	Drawing in three dimensions, Creating solids
Week 14	Solid editing command
Week 15	Rendering in 3D
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources				
مصادر التعلم والتدريس				
Text Available in the				
		Library?		
Required Texts	 A.W.Bound, "Engineering Drawing". 	Yes		
Recommended Texts	2. Dhananjay A Jolhe, "Engineering drawing".	No		
Websites				

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