



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	Eng	ineering Drawin	g	Module Delivery			
Module Type		Core			☑ Theory		
Module Code	COGTEK 101				☐ Lecture ☑ Lab		
ECTS Credits		8			☐ Tutorial		
SWL (hr/sem)		200			□ Practical□ Seminar		
Module Level		. 1	Semester of Delivery		2		
Administration Department		RETE	College	College of Oil & Gas Techniques Engineering/Kirkuk		Гесhniques	
Module Leader	Naseer Tawfe	eeq Alwan	e-mail	naseer.	t.alwan@ntu.ed	u.iq	
Module Leader's Acad. Title		Lecturer	Module Le	eader's Qualification PhD		PhD	
Module Tutor Name (if availar		lable)	e-mail				
Peer Reviewer Name			e-mail				
Scientific Committee Approval Date		01/06/2023	Version Nu	umber	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 الدراسية	 Introducing the student to the importance of engineering drawing and its relationship to other engineering subjects. Develop the student's mental abilities in drawing simple and complex shapes. Expanding the horizons of the student's imagination of geometric shapes and identifying their components, parts, mechanics, and their working principle 				
Module Learning	To familiarize the student with the importance of engineering drawing				
Outcomes	2. To teach the student how to imagine geometric shapes.				
مخرجات التعلم للمادة الدراسية	To distinguish the mechanical components and parts and their working principle.				
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A - Principles of drawing To develop the student's mental ability to draw simple and complex shapes. The student learns how to develop a strategy and sequence for drawing and assembling and deconstructing geometric shapes. Part B - Orthographic Projections The student learns to draw geometrical projections and set geometric dimensions. Part C - Cutting theory. To develop the student's mental ability to draw simple and complex shapes Cutting theory- Shapes and lines of cuts by type of material. Part D - Drawing stereoscopic shapes using 3D graphics Instructions. Prepare to use instructions in drawing three-dimensional geometric shapes and modifications of three-dimensional graphics.				

Learning and Teaching Strategies					
	استراتيجيات التعلم والتعليم				
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, 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 أسبو عا				
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا	4.2	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا		9.13	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل		200		

Module Evaluation							
تقييم المادة الدراسية							
		Time/Nu	Weight (Marks)	Week Due	Relevant Learning		
		mber	Weight (Walks)	Week Due	Outcome		
	Quizzes	3	10% (10)	2,7 and 13	LO #1, #5 and #6		
Formative	Assignments	5	10% (10)	3 , 5, 8,10	LO # 3, 4, 6, 7, and 10		
assessment	1 issignments		1070 (10)	and 14	20 2, ., 3, 7, and 10		
assessment	Projects / Lab.	10	20% (20)	Continuous	All		
	Report						
Summative	Midterm Exam	2 hr	10% (10)	7	LO #1 - #4		
assessment	Final Exam	3 hr	50% (50)	16	All		
Total assessme	Total assessment 100% (100 Marks)						

Delivery Plan (Weekly Syllabus)					
	المنهاج الأسبوعي النظري				
	Material Covered				
Week 1	Principles of drawing				
Week 2	Title Block				
Week 3	drawing geometric shapes, the basic				
Week 4	Graphic Adjustments - Computer Graphics Aids				
Week 5	Geometric line- Types of engineering drawing lines- Geometric operations- Dimensional placement.				
Week 6	Orthographic Projections				





Week 7	Mid-term Exam
Week 8	Principle of First Angle Projection
Week 9	Principle of Thired Angle Projection
Week 10	The conclusion of a third projection from Two known locations.
Week 11	Cutting theory- Shapes and lines of cuts by type of material.
Week 12	Drawing of projections cut from a specific site
Week 13	Drawing of partially cut elevations. Drawing of semi-cut elevations.
Week 14	3D Coordinates Drawing Using AutoCAD
Week 15	3D Solid Primitive Drawing Using AutoCAD
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)					
	المنهاج الأسبوعي للمختبر				
	Material Covered				
Week 1	Lab 1: Introduction to Principles of drawing Using AutoCAD				
Week 2	Lab 2: drawing Title Block Using AutoCAD				
Week 3	Lab 3: Drawing Commands with Exercise				
Week 4	Lab 4: Drawing Aids Commands with Exercise				
Week 5	Lab 5: Introduction to Edit Commands with Exercise				
Week 6	Lab 6: Dimensions , Layers, Linetypes, Colors with Exercise				
Week 7	Lab7: Orthographic Projections Using AutoCAD with Exercise				
Week 8	Lab 8: First angle projection Using AutoCAD with Exercise				
Week 9	Lab 9: Third angle projection Using AutoCAD with Exercise				
Week 10	Lab 10: Construct the view, from the two given views Using AutoCAD with Exercise				
Week 11	Lab11: Principles of sectioning Using AutoCAD with Exercise				
Week 12	Lab 12: Full Section Drawing Using AutoCAD with Exercise				
Week 13	Lab 13: Half Section Drawing Using AutoCAD with Exercise				
Week14	Lab 14: 3D Coordinates Drawing Using AutoCAD with Exercise				
Week 15	Lab 15: 3D Solid Primitive Drawing Using AutoCAD with Exercise				
Week16	Preparatory week before the final Exam				





Learning and Teaching Resources مصادر التعلم والتدريس				
Text Available in the Library?				
Required Texts	Engineering Drawing Using AutoCAD	Yes		
Recommended Texts	Ashleigh Fuller, Antonio Ramirez, Douglas Smith - Technical Drawing with AutoCAD 2017-SDC Publications (2017)	No		
Websites	Basic Mechanical Drawing website tutorials			

Grading Scheme مخطط الدر جات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	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.