



## الملحق ٤: وصف المادة الدراسية

## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدر اسية

Module Information معلومات المادة الدر اسية							
Module Title	Engineering Drawing Using AutoCA		AutoCAD	Modu	le Delivery		
Module Type	Ba	sic learning activities			□Theory	Theory	
Module Code	CPE 107				□ Lecture □ Tutorial ☑ Practical □ Seminar		
ECTS Credits		3					
SWL (hr/sem)		45					
Module Level		1	Semester o	of Delivery		1	
Administering De	partment	Computer Eng.	College	College of Engineering			
Module Leader Rania Hazim Ali		İ	e-mail Rania_hazim_enge@uodiyala.e		diyala.edu.iq		
Module Leader's	Acad. Title	Assist. Lecturer	Module Lea	ader's Qualification		MSc.	
Module Tutor Name (if available)		able)	e-mail	E-mail			
Peer Reviewer Name		Ali N. Albu-Rghaif	e-mail	ali.alb-Rghaif@uodiyala.edu.id		.edu.iq	
Scientific Committee Approval Date		11/06/2023	Version Nu	Number 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 Objectives أهداف المادة الدر اسية	<ol> <li>The students obtain knowledge and understanding in the subject of engineering drawing by using the computer through the AutoCAD program</li> <li>Understanding and teaching students the basics of engineering drawing related to computer engineering</li> <li>Knowing the correct methods of engineering drawing using the computer and how to apply them in the AutoCAD program in the field of computer engineering</li> <li>Increasing the student's experience in identifying drawing, designing engineering, electronic shapes, and electrical circuits.</li> <li>Easy to publish, and give the drawing on people across the globe just in a second.</li> </ol>					
Module Learning Outcomes مخرجات التعلم للمادة الدر اسية	<ol> <li>Explain why CAD software is now replacing traditional pencil drawing.</li> <li>Explain commands and AutoCAD's user interfaces, description of menu Bar and toolbars of AutoCAD</li> <li>Recognize how AutoCAD defines the position of points with coordinates and specify the angle in AutoCAD</li> <li>Explain How to draw lines, circles, Ellipses, Rectangles and arcs using precise methods</li> <li>Learn editing commands: copy, cut, paste, erase, move, selecting objects, orthogonal projection, ISO drawing.</li> <li>Developing the students' practical, theoretical and creative abilities in computer design techniques of various types. CAD Electrical, drawing electrical symbols on simple architectural plans</li> </ol>					
Indicative Contents المحتويات الإرشادية	Indicative content includes the following.         Part A – AutoCAD interfaces         The use of CAD in engineering drawing, description of menu Bar and toolbar         [6 hrs]         Part B – Drawing         Drawing Ellipse, Rectangle, line, Ray, Circle, point, Arc, etc. [24 hrs]         Part C – Editing Commands and CAD Electrical         CAD Electrical, the use of various layers, drawing electrical symbols on simple architectural plans, editing commands: copy, cut, paste, erase, move, selection objects, orthogonal projection, ISO drawing. [15 hrs]					





Learning and Teaching Strategies استر اتيجيات التعلم و التعليم				
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 refining and expanding their critical thinking skills. This will be achieved through classes, homework's and examples. Practical examples helps students to understand the course material.			

Student Workload (SWL) الحمل الدر اسي للطالب محسوب لـ ١٥ اسبو عا				
Structured SWL (h/sem)         48         Structured SWL (h/w)         3           الحمل الدر اسي المنتظم للطالب أسبو عيا         الحمل الدر اسي المنتظم للطالب خلال الفصل         3				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبو عيا	1.8	
Total SWL (h/sem) الحمل الدر اسي الكلي للطالب خلال الفصل	75			

Module Evaluation تقييم المادة الدر اسية					
Time/Number     Weight (Marks)     Week Due     Relevant Learning       Outcome					•
Formative assessment	Quizzes	2	10% (10)	7 and 12	LO #1 to #4 and #5, #6
	Assignments	3	20% (20)	4 ,6 and 13	LO #1 to #3 and #4 to #6
	Practice/lab	1	10% (10)	Continuous	All
Summative	Midterm Exam	2hr	10% (10)	8	LO #1 to #4
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		





Delivery Plan (Weekly Syllabus)				
المنهاج الأسبوعي النظري				
	Material Covered			
Week 1	The use of CAD in engineering drawing			
Week 2	description of menu Bar and toolbars			
Week 3	Line, point			
Week 4	Rectangle			
Week 5	Circle			
Week 6	drawing Ellipse			
Week 7	Arc, etc.			
Week 8	editing commands			
Week 9	copy, cut			
Week 10	paste, erase			
Week 11	move			
Week 12	selecting objects			
Week 13	selecting objects			
Week 14	CAD Electrical selecting objects			
Week 15	Mechanical/ Special features The use of various layers selecting objects			
Week 16	Preparatory week before the final Exam			





Learning and Teaching Resources مصادر التعلم والتدريس				
	Text Available in the Library?			
Required Texts	<ul> <li>AutoCAD 2019 Beginning and Intermediate</li> <li>The benefits of using the electrical toolset in AutoCAD</li> </ul>	pdf		
Recommended Texts	Any other materials available on the web.	No		
Websites	https://www.youtube.com/playlist?list=PLHCD1a8slQtJbEKJaw	JL9qQaY5P9SgCUX		

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