

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Engineering Drawing with AutoCAD		Module Delivery
Module Type	Core		☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☒ Practical ☒ Seminar
Module Code	MECT 103		
ECTS Credits	8		
SWL (hr/sem)	240		
Module Level	1	Semester of Delivery	1
Administering Department	mechatronics	College	Technical Engineering collage
Module Leader	Ali Tawfeeq Latteef	e-mail	Ali2111ban@gmail.com
Module Leader's Acad. Title	Assistant lecturer	Module Leader's Qualification	MSc
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1./3/2026	Version 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 Aims أهداف المادة الدراسية	The AutoCAD for Beginners book provides a learn-by-doing approach for users to learn AutoCAD. It is written for students and engineers who are interested to learn Auto CAD for creating designs and drawing of components or anyone who communicates through technical drawings as part of their work .
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Engineering and assemblies to learn about their components, parts, mechanics and principle. Organizing the student's thought to develop a specific and sequential strategy for drawing and compiling, And dismantling engineering projects and parts of machinery and equipment. Provide the student with the skill of drawing lines, Geometric shapes, perspective objects, and projections.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	
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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	157	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	11
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	83	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	240		

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

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Define the Engineering Drawing the Tool used in Engineering drawing-Types of drawing Sheets, types of lines
Week 2	Geometric Construction, types of lines and arc-Geometric Construction , types of regular polygons, Quadrilateral-Geometric Construction, types of circles and ellipse
Week 3	Isometric Views
Week 4	Dimensions - Exercises-Center translation
Week 5	Theory of Projection
Week 6	Drawing the three projection views
Week 7	Theory of Section
Week 8	Screw drawing
Week 9	Nuts drawing
Week 10	Assembly drawing
Week 11	Disassembly drawing
Week 12	Bearing drawing
Week 13	Gears drawing
Week 14	Cam and Rollers drawing
Week 15	Full parts assembly drawing-Full parts projection
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus) المناهج الاسبوعي للمختبر	
	Material Covered
Week 1	Define the Engineering Drawing the Tool used in Engineering drawing-Types of drawing Sheets, types of lines
Week 2	Geometric Construction, types of lines and arc-Geometric Construction , types of regular polygons, Quadrilateral-Geometric Construction, types of circles and ellipse
Week 3	Isometric Views
Week 4	Dimensions - Exercises-Center translation
Week 5	Theory of Projection
Week 6	Drawing the three projection views
Week 7	Theory of Section
Week 8	Screw drawing
Week 9	Nuts drawing
Week 10	Assembly drawing
Week 11	Disassembly drawing
Week 12	Bearing drawing
Week 13	Gears drawing
Week 14	Cam and Rollers drawing
Week 15	Full parts assembly drawing-Full parts projection

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Modern Control Engineering - Ogata - E4	yes
Recommended Texts	Modern Control Engineering - Ogata - E4	yes
Websites	--	

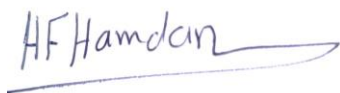
Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair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


 د. هارون عبد الكاظم
 عميد الكلية

عميد الكلية : أ.د. هارون عبد الكاظم شهد

التاريخ : 2026 / 3 / 24


 A.F. Hamdan

رئيس القسم : أ.د. حسين فاضل

التاريخ : 2026 / 3 / 24


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اسم التدريسي: م.م علي توفيق لطيف

التاريخ : 2026 / 3 / 24