

	Ministry of Higher Education and Scientific Research - Iraq University of Warith Al-Anbiyaa Engineering Department Refrigeration and Air Conditioning Techniques Engineering	
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Computer Applications 1		Module Delivery
Module Type	S		☐ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar
Module Code	MPAC105		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	2	Semester of Delivery	
Administering Department	Refrigeration and Air Conditioning Techniques	College	Engineering
Module Leader	NoorUlhuda Salam Ahmed	e-mail	nooralhuda.salam@uowa.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	M.SC
Module Tutor	None	e-mail	None
Peer Reviewer Name	Name	e-mail	None
Scientific Committee Approval Date	31 / 08/2025	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		To make the student able to process, program, and solve arithmetic and engineering problems using Matlab			
Module Learning Outcomes		1. To apply the knowledge about Matlab. 2. To enable students solve scientific and mathematical problems, write codes, design projects and process images.			
Indicative Contents					
Learning and Teaching Strategies					
استراتيجيات التعلم والتعليم					
Strategies		Assessment is based on hand-in assignments, written exam, Case study, Quizzes, seminars, Practical testing and Online testing.			
Student Workload (SWL)					
الحمل الدراسي للطالب					
Structured SWL (h/sem)		88	Structured SWL (h/w)		6
Unstructured SWL (h/sem)		13	Unstructured SWL (h/w)		6
Total SWL (h/sem)		75			
Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	20% (20)	3,5,6,10	LO #1,2,.....10
	Assignments	2	10% (10)	7, 8	LO # 8
	Seminar	1	10% (10)	11	LO # 11
Summative assessment	Midterm Exam	2 hr	10% (10)	12	LO # 1-12
	Final Exam	3hr	50% (50)	16	All

Total assessment		100% (100 Marks)	
Delivery Plan (Weekly Syllabus)			
المنهاج الاسبوعي النظري محتوى كل اسبوع يجب ان يغطي الوقت المحدد			
	Material Covered		
Week 1	Introduction to Matlab		
Week 2	Mathematical Functions		
Week 3	Vectors & Matrices		
Week 4	Vectors & Matrices		
Week 5	Introduction to Programming in MATLAB		
Week 6	Control flow		
Week 7	Control flow		
Week 8	Debugging		
Week 9	Mathematical Equations		
Week 10	Graph Plot		
Week 11	GUI		
Week 12	GUI		
Week 13	Image Processing		
Week 14	Simulink		
Week 15	Preparatory week before the final Exam		
Delivery Plan (Weekly Lab. Syllabus)			
المنهاج الاسبوعي للمختبر			
	Material Covered		
Week 1	Lab 1: Introduction to Matlab and Mathematical Functions		
Week 2	Lab 2: Vectors & Matrices		
Week 3	Lab 3: Control flow		
Week 4	Lab 4: Mathematical Equations		
Week 5	Lab 5: GUI		
Week 6	Lab 6: Image Processing		
Week 7	Lab 7: Simulink		
Learning and Teaching Resources			



مصادر التعلم والتدريس				
	Text			Available in the Library?
Recommended Texts (Website)		https://www.mathworks.com/products/matlab.html		
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.

استاذ المادة: م.م نور الهدى سلام
التاريخ: 2025-08-31

أ.م.د. حسين هادي حسين
عميد كلية الهندسة

رئيس القسم
أ.م.د. محمد حسن عبود
التاريخ: 2025-08-31

كولبة

جامعة وارث الأنبياء
2017
كلية الهندسة