

	<p>Ministry of Higher Education and Scientific Research - Iraq</p> <p>University of Warith Al-Anbiya Engineering Department</p> <p>Refrigeration and Air Conditioning Techniques Engineering</p>	
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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		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	MPAC207		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	2	Semester of Delivery	
Administering Department	BSc-MPAC	College	Engineering
Module Leader	Noor Ulhuda 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	23 / 9/2024	Version Number	1.0
Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None		Semester

Co-requisites module	None	Semester			
<b>Module Aims, Learning Outcomes and Indicative Contents</b>					
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية					
<b>Module Aims</b>	To make the student able to process, program, and solve arithmetic and engineering problems using Matlab				
<b>Module Learning Outcomes</b>	1. To apply the knowledge about Matlab. 2. To enable students solve scientific and mathematical problems, write codes, design projects and process images.				
<b>Indicative Contents</b>					
<b>Learning and Teaching Strategies</b>					
استراتيجيات التعلم والتعليم					
<b>Strategies</b>	Assessment is based on hand-in assignments, written exam, Case study, Quizzes, seminars, Practical testing and Online testing.				
<b>Student Workload (SWL)</b>					
الحمل الدراسي للطالب					
<b>Structured SWL (h/sem)</b>	88	<b>Structured SWL (h/w)</b>	6		
<b>Unstructured SWL (h/sem)</b>	13	<b>Unstructured SWL (h/w)</b>	6		
<b>Total SWL (h/sem)</b>	75				
<b>Module Evaluation</b>					
تقييم المادة الدراسية					
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>	
<b>Formative assessment</b>	<b>Quizzes</b>	4	20% (20)	3,5,6,10	LO #1,2,.....10
	<b>Assignments</b>	2	10% (10)	7, 8	LO # 8
	<b>Seminar</b>	1	10% (10)	11	LO # 11
<b>Summative assessment</b>	<b>Midterm Exam</b>	2 hr	10% (10)	12	LO # 1-12
	<b>Final Exam</b>	3hr	50% (50)	16	All
<b>Total assessment</b>	100% (100 Marks)				
<b>Delivery Plan (Weekly Syllabus)</b>					
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	<b>Preparatory week before the final Exam</b>

### 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	<a href="https://www.mathworks.com/products/matlab.html">https://www.mathworks.com/products/matlab.html</a>	

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

