MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Database Systems-CS209

Module Information معلومات المادة الدراسية							
Module Title	Con	re	Modu	le Delivery			
Module Type		Core			⊠ Theory		
Module Code					⊠ Lecture ⊠ Lab		
ECTS Credits				☐ Tutorial			
SWL (hr/sem)				☐ Practical☐ Seminar			
Module Level		2	Semester of Delivery		3		
Administering Dep	partment	Computer Science	College	Science			
Module Leader	م.م كرار علي عبدالله Ass.Lec Karrar Ali		e-mail				
Module Leader's A	Acad. Title	Assistant Lecturer	Module Lea	e Leader's Qualification		Master Degree	
Module Tutor	Name (if available)		e-mail	E-mail			
Peer Reviewer Name		Name	e-mail	E-mail			
Scientific Committee Approval Date		01/06/2023	Version Nu	mber	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	This course provides an overview of the basic concepts of computer architecture, identifying its fundamentals, benefits, forms, and layers. It helps computer organizations improve performance-based products. For example, software engineers need to know the processing power of processors. They may need to optimize software to maximize performance at the lowest cost. This can require a very detailed analysis of the computer organization.					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 1- Learn about the computer architecture and how it is organized. 2- Learn about memory transfer methods. 3 - Learn about input/output interrupts. 4 - Learn about RISC. 					
Indicative Contents المحتويات الإرشادية	 Encouraging the use of modern technology in curriculum assessment Encouraging self-learning processes Encouraging students to present, meet, and engage in group discussions Graduation research and scientific reports Readings, self-study, discussion groups Classroom exercises and activities Guiding students to useful websites 					

Learning and Teaching Strategies				
استر اتيجيات التعلم والتعليم				
	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			
Strategies	expanding their thinking skills. This will be achieved through classes, Labs.			
	and interactive			
	discussions.			

Student Workload (SWL) الحمل الدراسي للطالب						
Structured SWL (h/sem) الحمل للدراسي المنتظم للطالب أسبوعيا Structured SWL (h/w)						
Unstructured SWL (h/sem) الحمل لدراسي المنتظم للطالب خلال الفصل	73	Unstructured SWL (h/w) الحمل لدراسي المنتظم للطالب أسبوعيا	4.86			
Total SWL (h/sem) الحمل لدراسي للطالب خلال الفصل	150					

Module Evaluation

تقييم المادة الدراسية

		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	5, 10	LO #1,2,3,4,5,6,7,8
Formative	Assignments	1	5% (5)	12	LO #1,2,3,4,5,6,7,8
assessment	Assignments Lab.	1	10% (10)	Continuous	
	Midterm Exam	2hr	25% (10)	8,12	LO #12,3,4,5,6,7,8
Summative	Final Exam	3hr	35% (50)	16	All
assessment	Final Lab. Exam	1hr	15%(15)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري

	Material Covered
Week 1	Structure and Function
Week 2	The Evolution of the Intel x86 Architecture
Week 3	Embedded Systems
Week 4	ARM Architecture
Week 5	Computer Components
Week 6	Interrupts
Week 7	Interconnection Structures
Week 8	- Principle Of Locality - Characteristics Of Memory Systems

Week 9	The Memory Hierarchy Types
Week 10	introduction and Elements of Cache Design
Week 11	Mapping Function
Week 12	Semiconductor Main Memory
Week 13	Advanced DRAM Organization - Flash Memory
Week 14	External Memory Types

Learning and Teaching Resources مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	1.John L. Hennessy and David A. Patterson, "Computer Architecture a Quantitative Approach", fifth Edition, 2012. 2.Mostafa Abd-El-Barr and Hesham El-Rewini, "FUNDAMENTALS OF COMPUTER ORGANIZATION AND ARCHITECTURE", 2005.	No		
Recommended Texts		No		
Websites				

Grading Scheme						
	مخطط الدرجات					
Group Grade التقدير Marks (%) Definit				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	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit
(0 – 49)				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.