## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية							
Module Title	Introduction to Computer Second		Science	•	Modu	le Delivery	
Module Type		Core		🛛 Theory			
Module Code		URCOM				⊠ Lecture ⊠ Lab	
ECTS Credits		4			□ Tutorial		
SWL (hr/sem)		100				Practical Seminar	
Module Level		1	Semester of Delivery		1		
Administering Dep	partment	CS	College	Со	College of Sciences		
Module Leader	Dr. Safaa H. Sh	wail	e-mail	safa	safaa.husseinshwail@nahrainunive.ec		rainunive.edu.iq
Module Leader's	Acad. Title	Lecturer	Module L	Leader's Qualification Ph.D.		Ph.D.	
Module Tutor Name (if available)		e-mail	E-m	E-mail			
Peer Reviewer Name Name		Name	e-mail	E-m	nail		
Scientific Committee Approval Date		01/06/2023	Version Number 1.0				

Relation with other Modules					
	العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	None	Semester			
Co-requisites module	None	Semester			

Modu	le Aims, Learning Outcomes and Indicative Contents
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية
<b>Module Aims</b> أهداف المادة اللراسية	<ol> <li>The History of the Personal Computer</li> <li>Understanding Digital Components</li> <li>Processing, Storage, and Connectivity</li> <li>Accessing, Using, and Managing Software</li> <li>Application Software</li> <li>Understanding System Software</li> <li>Understanding Programming</li> <li>How Networks Function</li> <li>Threats to Your Digital Assets</li> </ol>
Module Learning Outcomes مخرجات التعلم للمادة اللراسية	<ol> <li>You will be able to describe the history of personal computer hardware and software development.</li> <li>You will be able to describe the devices that make up a computer system.</li> <li>You will be able to describe how computers process and store data and how devices connect to a computer system</li> <li>You will be able to explain the ways to access and use software and describe how to best manage your software.</li> <li>Describe the different types of application software used for productivity and multimedia.</li> <li>You will be able to explain the types and functions of operating systems and explain the steps in the boot process</li> <li>You will be able to describe the life cycle of a software project and identify the stages in the program development life cycle</li> <li>You will be able to explain the basics of networking, including the components needed to create a network, and describe the different ways a network can connect to the Internet.</li> <li>You will be able to describe hackers, viruses, and other online annoyances and the threats they pose to your digital security</li> </ol>
<b>Indicative Contents</b> المحتويات الإرشادية	Understanding Digital Components, Understanding Your Computer, Input Devices, Output Devices. Processing, Storage, and Connectivity, Processing and Memory on the Motherboard, Storing Data and Information, Connecting Peripherals to the Computer, Power Management and Ergonomics. Accessing, Using, and Managing Software, Software Basics, Managing Your Software, Application Software, Productivity and Business Software, Multimedia and Educational Software.

Understanding System Software, Operating System Fundamentals, What the
Operating System Does, Starting Your Computer.
Understanding Programming, Life Cycle of an Information System, Life Cycle of a Program.
How Networks Function, Networking Fundamentals, Network Architectures, Network Components, Connecting to the Internet.
Threats to Your Digital Assets, Identity Theft and Hackers, Computer Viruses, Online Annoyances and Social Engineering.

Learning and Teaching Strategies				
استر اتيجيات التعلم والتعليم				
Strategies	The main strategy that will be adopted in delivering this module is by explaining lectures in an interactive way by letting the students to participate in the presenting through questions and answers while at the same time refining and expanding their critical thinking skills. This will be achieved through classes and labs.			

Student Workload (SWL) الحمل الدر اسي للطالب محسوب لـ ١٥ اسبو عا					
Structured SWL (h/sem)63Structured SWL (h/w)7الحمل الدراسي المنتظم للطالب خلال الفصل					
Unstructured SWL (h/sem) الحمل اللراسي. غير. المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل اللراسي غير المنتظم للطالب أسبوعيا	6		
Total SWL (h/sem)     100					

Module Evaluation						
	تقييم المادة الدراسية					
Time/Nu Neight (Marke) Neak Due Relevant Learning						
mber Weight (Marks) Week Due Outcome						
Quizzes	4	10% (10)	2,5,8,12	All		

Formative	Assignments	2	5% (5)	5,10	All
assessment	Projects / Lab.	1	15% (15)	Continuous	All
	Report	1	10% (10)	10	All
Summative	Midterm Exam	2 hr	10% (10)	7,14	All
assessment	Final Exam	3hr	50% (50)	15	All
Total assessment		100% (100 Marks)			

	Delivery Plan (Weekly Syllabus)					
	المنهاج الاسبوعي النظري					
	Material Covered					
Week 1	The History of the Personal Computer					
Week 2	Understanding Digital Components					
Week 3	Understanding Digital Components (cont.)					
Week 4	Processing, Storage, and Connectivity					
Week 5	Accessing, Using, and Managing Software					
Week 6	Application Software					
Week 7	Application Software (cont.)					
Week 8	Mid-term Exam 1					
Week 9	Understanding System Software					
Week 10	Understanding System Software (cont.)					
Week 11	Understanding Programming					
Week 12	Understanding Programming (cont.)					
Week 13	How Networks Function					
Week 14	Threats to Your Digital Assets					
Week 15	Mid-term Exam 2					
Week 16	Preparatory week before the final Exam					

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	Lab 1: Computer Hardware 1				

Week 2	Lab 2: Computer Hardware 2
Week 3	Lab 3: Computer Assembly 1
Week 4	Lab 4: Computer Assembly 2
Week 5	Lab 5: Disk Operating System
Week 6	Lab 6: Dos Commands: Internal Commands
Week 7	Lab 7: Dos Commands: Internal Commands 2
Week 8	Mid-Term Exam 1
Week 9	Lab 8: Dos Commands: Internal Commands 3
Week 10	Lab 9: Dos Commands: Internal Commands 4
Week 11	Lab 10: Dos Commands: External Commands 1
Week 12	Lab 11: Dos Commands: External Commands 2
Week 13	Lab 12: Dos Commands: External Commands 3
Week 14	Lab 13: Dos Commands: External Commands 4
Week 15	Mid-Term Exam 2

Learning and Teaching Resources مصادر التعلم والتدريس					
Text Available in the Library?					
Required Texts	Technology in action complete, 16 <sup>th</sup> edition, 2020.	No			
Recommended Texts	Computer System Architecture 3rd edition by M.Morris Mano 1992	No			
Recommended Texts	Fundamentals of Logic Design, 6th edition 2010	No			

Grading Scheme							
مخطط الدرجات Group Grade التقدير Marks (%) Definition							
Success Group (50 - 100)	A - 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			

	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group	<b>FX –</b> Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0 – 49)	<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.