MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية		
Module Title	Computer	**Module Delivery**
Module Type	Basic	☒ **Theory**
Module Code	URCOM	☐ **Lecture**
ECTS Credits	3	☒ **Lab**
		☐ **Tutorial**
SWL (hr/sem)	75	☐ **Practical**
		☐ **Seminar**

Module Level	1	**Semester of Delivery**	1
Administering Department	Mathematics and Computer Applications Science	**College**	College of Sciences
Module Leader	Mohammed Q. Ali	**e-mail**	mohammed.q.ali@nahrainuniv.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	**Module Leader's Qualification**	M.Sc.
Module Tutor	Name (if available)	**e-mail**	E-mail
Peer Reviewer Name	Name	**e-mail**	E-mail
Scientific Committee Approval Date	19/12/2024	**Version Number**	

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	1. The History of the Personal Computer 2. Understanding Digital Components 3. Processing, Storage, and Connectivity 4. Input and Output peripherals 5. Understanding Number systems 6. The Applications Software and OS 7. Communication and Computer networks 8. The Internet and World Wide Web 9. Cloud computing
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. You will be able to describe the history of personal computer hardware and software development. 2. You will be able to describe the devices that make up a computer system. 3. You will be able to describe how computers process and store data and how devices connect to a computer system 4. You will understand the differences between input and output devices 5. You will be able to explain the types and functions of operating systems 6. Describe the different types of application software 7. You will be able to use Microsoft Office applications (Word, Excel and PowerPoint) 8. You will be able to convert numbers in binary and other number system with binary arithmetic operations 9. 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. 10. Describe the Cloud computing
Indicative Contents 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. 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 Networks, the Internet and Cloud computing.

Learning and Teaching Strategies
استراتيجيات 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 الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	5	10% (10)	Continuous	All
	Assignments	2	10% (10)	7,8	All
	Report	1	10% (10)	Continuous	
	Lab	2	10%(10)	8,14	All
Summative assessment	Midterm Exam	2hr	10% (10)	7,15	All
	Final Exam	3hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introducing computer system
Week 2	Evolutions of Computer (computer generations)
Week 3	Basic Computer System Organization
Week 4	Essential Computer Hardware (Processer and Memory)
Week 5	Essential Computer Hardware (Secondary storage)
Week 6	Essential Computer Hardware (Input/Output Units)
Week 7	**Mid-term Exam 1**
Week 8	Computer Number Systems
Week 9	Computer Arithmetic (Operations in Binary)
Week 10	Computer Software and Operating System
Week 11	Data Communication and Computer Networks
Week 12	The Internet and WWW (Web Browsers)
Week 13	The Internet and WWW (Communications and Emails)
Week 14	Cloud computing and Services
Week 15	**Mid-term Exam 2**

Delivery Plan (Weekly Lab. Syllabus)
المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Computer Hardware and Understanding Operating Systems
Week 2	Lab 2: Working with Windows (Windows Features, Decorating Widows and Basic windows)
Week 3	Lab 3: Working with Windows (Folders and Files)
Week 4	Lab 4: Working with Windows (Window Settings)
Week 5	Lab 5: Starting Microsoft Word (Application environment, entering Your Text, fonts styles ….)
Week 6	Lab 6: Starting Microsoft Word (Documents features, create a table and insert an equation)
Week 7	Lab 7: Starting Microsoft Word (Document decorate as output)
Week 8	**Practical Exam 1**
Week 9	Lab 8: Data analysis with Microsoft excel (create data model and formatting tools)
Week 10	Lab 9: Data analysis with Microsoft excel (using formula and basic functions)

Week 11	Lab 10: Data analysis with Microsoft excel (filtering data)
Week 12	Lab 11: Presentation authoring with Microsoft PowerPoint (Creating a New Presentation)
Week 13	Lab 12: Presentation authoring with Microsoft PowerPoint (Enhancing Presentation - Visuals and Media)
Week 14	**Practical Exam 2**
Teaching Staff	

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts	• Cambridge IGCSE Information and Communication Technology (3rd. Edition) by David Watson, Graham Brown 2021 • Fundamentals Of Computers (1st Edition) by E. Balagurusamy 2009 • Microsoft Office 2019 Step by Step (1st Edition) by Joan Lambert, Curtis Frye 2019	No
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 works 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.