Ministry of Higher Education and Scientific Research - Iraq
Al-Nahrain University
College of Science
Department of Medical Physics

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	COMPUTER			**Module Delivery**	
Module Type	Basic			☒**Theory** ☒**Lecture** ☒**Lab** ☐**Tutorial** ☐**Practical** ☒**Seminar**	
Module Code	URCOM				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level		1	**Semester of Delivery**		2
Administering Department		MPHY	**College**	College of Science	
Module Leader	Fatimah Fadhil Abd Ali		**e-mail**	Fatimahfadhil33@nahrainunivm.edu.iq	
Module Leader's Acad. Title		Lecturer	**Module Leader's Qualification**		Ph.D.
Module Tutor			**e-mail**		
Module Reviewer					
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date			**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	At the end of the course, the students will be able to: • 1- Developing the student to adapt to the rapid changes of special technologies in the field of information that characterizes it age. • 2- Developing the student's ability to think scientifically through the problem-solving method using Computers. • 3- Providing the student with self-learning skills and research and investigation skills through using different computer software applications.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**Module 1: Cognitive objectives** -Achieving cognitive communication between students and benefiting from contemporary developments and rapid transmission the information. -Providing students with integrated scientific knowledge in the field of computer science. -To be proficient in preparing scientific research in a manner that takes into account an integrated scientific methodology. -To know the methods of conveying information to practice the teaching profession and balance it with the applied reality Within educational institutions. -Apply the basic and advanced programming skills they have learned to enrich their knowledge Intellectual science in the field of computers and its other applications. -To be proficient in managing the analysis of information systems and databases with high efficiency. -Teaching students the foundations of communications management, computer networks, and operating systems. -Teaching students the skills of designing, supervising and following up on websites. -Teaching the student ways to secure data and computers and finding solutions to allow them to be frozen in everyone Magazines. **Module 2: The skills objectives of the course** **Identify and explain a variety of computer components** • -1 Knowledge skills - remembering • 2-Remembering and analysis skills • 3-Use and development skills **Module 3: Teaching and learning methods** **Lecture method and use of the interactive whiteboard** • Providing students with the basics and additional topics related to thinking outcomes • Asking students questions and forming discussion groups during lectures to discuss the solution to the issues

	• It requires thinking and analysis • Giving students assignments to solve problems • Assigning students to prepare reports related to the course **Module 4: General and qualifying transferable skills (other skills related to employability and development personal)** • -1 Participation in scientific workshops and seminars inside and outside the country • -2 Follow up on scientific development through contacting international universities via the Internet • -3 Developing the student's ability to conduct scientific research and reports
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Introduction to computer science: Should be able to show an understanding of the historical evolution from mainframe to tablet. They should also understand differences between these systems, e.g. power, computational characteristics, resources, and should be able to compare them. Introduction to operating systems and system software a. The human interface b. The operating principles and characteristics of printers, display devices, input devices. When you connect a device, the operating system has to perform some tasks in order to be able to use the device - this is interaction between human and computer. Candidates will be expected to explain the support the operating system provides, to enable user interaction. Explain the characteristics and performance of peripherals. a. Display devices b. Printers c. Keyboards d. Input/output techniques: peripheral polling, interrupt driven I/O. Candidates should be able to describe input and output techniques. Candidates will be expected to describe the use of a device, rather than describing the device itself.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The unit will be introduced to students through a specific series of lectures, supported by problem-solving practice implemented in interactive tutorials. These lessons will be supported by practice and guided study outside the classroom. Formative assessment is carried out throughout the unit during tutorials and feedback is provided during these tutorials. The main strategy to be adopted in delivering this unit is to encourage students' participation in the exercises, while at the same time improving and expanding their critical thinking skills.

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**	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction into Computer Science
Week 2	Microsoft Office programs
Week 3	Introduction into Microsoft Word
Week 4	Microsoft Word Features
Week 5	Lists and Tabs in Word Part1
Week 6	Part2
Week 7	Introduction into Microsoft Excel
Week 8	**Mid exam**
Week 9	Plotting and Static in Excel
Week 10	Function in Excel
Week 11	Using Equation in Sheets
Week 12	Formatting and Export data from Excel
Week 13	Power Point
Week 14	Features of Power Point
Week 15	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Principles and application of Computer Science
Week 2	Microsoft Office
Week 3	Introduction into Microsoft Word
Week 4	Using Tabs in Word Part 1
Week 5	Part 2
Week 6	Part 3
Week 7	**Mid exam**
Week 8	Introduction in Microsoft Excel
Week 9	Using Excel for Static and Plotting
Week 10	Formatting and Using Function within Microsoft Excel
Week 11	Export all data from Excel sheet
Week 12	Introduction into PowerPoint
Week 13	Lists and Tabs in Microsoft PowerPoint
Week 14	Preparatory week
Week 15	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Computer Fundamentals, Priti Sinha, Pradeep K., Sinha, 6th edition, ISBN-13, BPB Publications, 2004.	No (Available as an e-book)
Recommended Texts		
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 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.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي