وزارة التعليم العالي والبحث العلمي
جامعة المستقبل
كلية العلوم
قسم الكيمياء الحياتية

MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية				
Module Title	Computer 1		**Module Delivery**	
Module Type	Basic		☒**Theory** ☐**Lecture** ☒**Lab** ☒**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	UOMU0000022			
ECTS Credits	3			
SWL (hr/sem)	75			
Module Level	1	**Semester of Delivery**	2	
Administering Department	Dept. of Biochemistry	**College**	College of Science	
Module Leader		**e-mail**		
Module Leader's Acad. Title		**Module Leader's Qualification**		
Module Tutor		**e-mail**		
Peer Reviewer Name		**e-mail**		
Review Committee Approval Date		**Version Number**	1.0	

RelationwithOtherModule 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. Use the computer in basic tasks. 2. Identify and discuss the main components of a computer system. 3. Create documents using a word processor and prepare presentations. 4. Conduct research on the Internet. 5. Introduction to Artificial Intelligence
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Provide the student with a comprehensive understanding of the structure and functions of the computer. 2. Understand the basics of programming. 3. Understand the fundamentals of Information Technology and its components (software and networks).
Indicative Contents المحتويات الإرشادية	1. Fundamentals and Introduction to Computers 2. Operating Systems and File Management 3. Basic Computer Applications 4. Principles of Programming 5. Networks and Information Security
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	

Strategies	1. Engage students in practical activities such as presentations, problem-solving, and group discussions. 2. Use stimulating questions and real-life scenarios. 3. Assign students projects that require research and critical thinking. 4. Integrate programming or web design into the computer subject as final projects.

Student Workload (SWL) الحمل الدراسي للطالب			
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	%5 (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	1	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظر ي	
	Material Covered
Week 1	Introduction to Computer: Concepts of Hardware and Software with their components; Concept of Computing, Data and Information; Applications of Information Electronics and Communication echnology ('ECT); Connecting input/output evices, and eri herals to CPU.
Week 2	computer Components: Computer Portions, Parts, I/O Units, Memory Types, Basic PU Components,
Week 3	Hardware computer Components: Computer Ports, Personal ornputer, Personal Computer (Features and Types)
Week 4	Operating System and Graphical User Interface UI: Operating System; Basics of Common perating Systems; The User Interface, Using Mouse Techniques; Use of Common Icons, Status Bar, Using Menu and Menu-selection, Concept of
Week 5	Operating System and Graphical User Interface UI: Folders and Directories, Opening and closing of ifferent Windows; Creatin Short cuts.
Week 6	Word Processing: Word Processing Basics; pening and Closing of documents; Text creation nd Manipulation; Formatting of text.
Week 7	Word Processing: Word Processing Basics; Table handling; pell check, language setting and thesaurus; rintin of word document.
Week 8	Spread Sheet: Basics of Spreadsheet; Manipulation fcells; Formulas and Functions; Editing of Spread heet, printing of Spread Sheet.
Week 9	Presentation Software: Basics of presentation software; Creating Presentation.
Week 10	Preparation and Presentation of Slides; Slide Show; eking printouts Of presentation / handouts.
Week 11	Introduction to Internet and Web Browsers: Computer networks Basic; LAN, WAN; Concept of Internet and its Applications.
Week 12	communications and Emails: Basics of electronic ail; Getting an email account; Sending and eceiving emails; Accessing sent emails; Using Emails; Document collaboration.
Week 13	computer Troubleshooting: Identifying and solving common hardware and software problems that computer users encounter. Basic troubleshooting echniques and tools for diagnosing and resolving ssues.
Week 14	Introduction to Internet and Web Browsers: connecting to internet; world Wide Web; Web Browsing software's, Search Engines; Understanding URL; Domain name; IP ddress.

Week 15	Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1 -2	File management practice
Week 2 -4	Writing/formating reports
Week 3	Data tables and calculations
Week 4	Charts and simple statistics
Week 5	Setting up environment and running scripts
Week 6	Simple biochemical calculation programs
Week 7	Programs to check reaction conditions
Week 8	Batch data processing programs
Week9	Managing multiple data points
Week 10	Writing reusable code blocks
Week 11	Plotting experimental data
Week 12	Finding errors and documenting code
Week 13	Developing an automated lab report generator
Week 14	Present project, review and exam
Week 15	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**

Required Texts	**Computer Science Illuminated – Nell Dale & John**	Yes
Recommended Texts	. Introduction to the Theory of Computation – Michael Sipser	Yes
Websites	https://www.w3schools. https://www.geeksforgeeks.org/	

APPENDIX:

GRADING SCHEME مخطط الدرجا ت				
Group	**Grade**	التقدي ر	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتيا ز	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	مقبول بقرا ر	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				

NB 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.