



Ministry of Higher Education and  
Scientific Research - Iraq  
Al-Mustaqbal University  
College Of Sciences  
Department of biology



## MODULE DESCRIPTOR FORM

### نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>COMPUTER SCIENCE 1</b>		Module Delivery
Module Type	CORE		Theory Lecture Lab Tutorial Practical Seminar
Module Code	<b>UOMU0000021</b>		
ECTS Credits	8		
SWL (hr/sem)	<b>200</b>		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Dr. Ahmed Adnan Hadi	e-mail	ahmed.adnan@uomus.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	A.t.	e-mail	None
Peer Reviewer Name		e-mail	
Review Committee Approval	15/06/2023	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

<p><b>Module Aims</b> أهداف المادة الدراسية</p>	<ol style="list-style-type: none"><li>1- Educating the student to be familiar with the basic rules for dealing with and managing the computer to help him in completing projects, printing matters, preparing statistics and graphs, creating presentations, designing engineering plans, etc., and the emergence of the Internet as a means of communication available to all, it has become very necessary for the student to learn to use the computer, due to the role of the Internet in many fields Including education, scientific research, trade and marketing through electronic correspondence, web pages and electronic communication.</li><li>2- Develop Connection and communication skills for students.</li><li>3- The ability to use modern software and applications professionally and employ technical aspects to serve the community.</li></ol>
<p><b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية</p>	<p><b>1- Cognitive goals :</b></p> <ol style="list-style-type: none"><li>1.1 The student's comprehension of the material</li><li>1.2 The ability to analyze and apply what you learn practically on the calculator.</li><li>1.3 The evaluation is done by presenting the material to the students in the laboratory and then applied by them</li></ol> <p><b>2- Skill objectives of the course:</b></p> <ol style="list-style-type: none"><li>2.1 direct questions and answers about the previous article.</li><li>2.2 Analyzing the student's ability to absorb through home-work, which is carried out at home and stored on the computer</li><li>2.3 Tablets to display in front of the students directly to know the extent of what they have learned from the previous lecture</li><li>2.4 Show educational films related to the subject in order to consolidate the ability to learn</li></ol>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>The computer laboratory is of great importance and distinctive in providing the student with sufficient information and experience in the field of using electronic devices (computers), which helps students develop their scientific and practical skills in the field of information technology that they need during their educational career. To activate the role of the computer laboratory within the standards of quality assurance, management conditions must be provided. Safety and security, risk assessment in the laboratory for students, and equipment maintenance to reach the desired goal, as follows:</p> <ol style="list-style-type: none"><li>1- Providing the laboratory with the necessary and necessary devices and</li></ol>

	<p>equipment.</p> <p>2- Arranging computers in their appropriate places.</p> <p>3- The power supplied from the current and voltage of the laboratory must be suitable for the power consumed by the computer network in order for the devices to operate with high efficiency.</p> <p>4-The presence of a main circuit breaker near the entrance to the laboratory so that the laboratory official can cut off the electricity when necessary and as quickly as possible.</p> <p>5-When connecting computers in the laboratory, it is taken into account that each computer system is linked to a separate electricity supply point.</p> <p>6 - Provide an electric charger to avoid sudden power outages from the device.</p> <p>7- The laboratory must be equipped with refrigeration equipment, vacuum cleaners, preventing sunlight from entering the equipment, internal lighting and computer hardware packaging.</p> <p>8 - It is taken into account that the computer system is placed on a wooden table to prevent electrical connection, and warning and indicative panels must be posted on the walls of the laboratory.</p> <p>9 - Every student, after completing work in the laboratory, must disconnect the main electrical current to preserve the safety of the laboratory and its equipment.</p>
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### Learning and Teaching Strategies

#### استراتيجيات التعلم والتعليم

<b>Strategies</b>	The main strategy to be adopted in delivering this course is to encourage students to participate in exercises and to improve and expand their critical thinking skills at the same time. This will be achieved through classes, interactive tutorials, practical application, and conducting practical experiments that include implementing programs on the computer and how to deal with social sites.
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### Student Workload (SWL)

#### الحمل الدراسي للطالب

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	102	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعياً	7
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	98	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعياً	6.5
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	200		

### Module Evaluation

#### تقييم المادة الدراسية

	Time/Nu	Weight (Marks)	Week Due	Relevant Learning
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		number			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	
	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
<b>Total assessment</b>			100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Compare the different types of computers and their purposes.
Week 2	Describe the function of different hardware components such as CPU, storage systems, RAM, ROM etc. and common input and output devices and describe how they work in sequence to process information.
Week 3	Identify and explain the different types of software: operating systems, application software and programming software and explain the terms shareware, freeware, end-user license agreement and the concept of software copyright.
Week 4	Identify the basic knowledge of computer ergonomics (seating, lighting, positioning, ventilation etc.) and explain the common health problems associated with computer usage and ways to avoid them.
Week 5	Identify the Iraq data protection legislation.
Week 6	Explore network fundamentals, types and the benefits and risk of network.
Week 7	<b>Exam</b>
Week 8	The requirements of a computer suitable for purchasing for student usage.
Week 9	Clarification of the terms Hertz and byte.
Week 10	How to install and uninstall the program.
Week 11	Illustrate the hierarchical structure of drives, files and folders and identify the meaning of file extension.
Week 12	Use Windows operating system to manage files and folders easily by creating, deleting, and copying, moving, and compressing / decompressing files and using Settings' options.
Week 13	Use web browsers to browse information on the Internet and to manipulate its tools and options.
Week 14	Viruses are the most important steps necessary to protect against penetration, the components of viruses, their types, and their damage to the computer.
Week 15	<b>Discussion the home work.</b>
Week 16	<b>Final Exam</b>

## Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Operating system classification Examples of operating system.
Week 2	Lab 2: Windows 7 operating system.
Week 3	Lab 3: Requirements for installing the operating system and desktop components (use a calculator to find out its components).
Week 4	Lab 4: Start menu and its contents ( computer use).
Week 5	Lab 5: New features of Windows 7 (video tutorial).
Week 6	Lab 6: Taskbar (use the computer to see the contents).
Week 7	Lab 7: Defining computer networks, identifying their basic components, explaining the benefits of computer networks, and defining their different classifications (educational video).
Week 8	Lab 8: A practical application about installing and uninstalling programs.
Week 9	Lab 9: Practical application on how to create, copy, move and compress folders (using the computer in the laboratory).
Week 10	Lab 10: Give a brief overview of the concept of the protocol in general and the Internet protocol in particular (educational video).
Week 11	Lab 11: Determine the requirements and methods of Internet connection, and identify the areas of Internet use.
Week 12	Lab 12: Practical application on the dangers of the Internet and methods of prevention and the most prominent contemporary applications in the world of the Internet.
Week 13	Lab 13: A practical application that shows the removal of the virus from the infected computer.
Week 14	Lab 14: Discuss practical projects
Week 15	Exam.

## Learning and Teaching Resources

مصادر التعلم والتدريس

	<p>أساسيات الحاسوب وتطبيقاته المكتبية / 4 أجزاء – أ.د. غسان حميد عبد المجيد و .د. زياد محمد عيود وآخرون</p> <p>1- Donald H. Sanders, (1995), Computer today, Second edition, McGraw –hill</p> <p>2- Yusr Al-Mustafa Series for Science "Basics of Computer and Internet Office 2010, Dr. Ziyad Muhammad Abboud, Dar Al-Doctor for Publishing and Distribution, Baghdad 2013</p>	<p>Available in the Library?</p>
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	<b>3- Any other materials available on the web.</b>	
<b>Required Texts</b>		
<b>Recommended Texts</b>		
<b>Websites</b>		

## APPENDIX:

<b>GRADING SCHEME</b> مخطط الدرجات				
<b>Group</b>	<b>Grade</b>	<b>التقدير</b>	<b>Marks (%)</b>	<b>Definition</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
	<b>C - Good</b>	جيد	70 - 79	Sound work with notable errors
	<b>D - Satisfactory</b>	متوسط	60 - 69	Fair but with major shortcomings
	<b>E - Sufficient</b>	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	مقبول بقرار	(45-49)	More work required but credit awarded
	<b>F – Fail</b>	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.



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