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

MODULE DESCRIPTOR FORM
ومرج وصف انمادج اندساسيح

Module Information
معهماخ انمادج اندساسيح

Module Title	**COMPUTER SCIENCE II**		Module Delivery	
Module Type	CORE		Theory Lecture Lab Tutorial Practical Seminar	
Module Code	UOMU0351205			
ECTS Credits	3			
SWL (hr/sem)	75			
Module Level			Semester of Delivery	
Administering Department	Type Dept. Code		College	Type College Code
Module Leader	Hadi salah hadi		e-mail	hadi.salah.hadi@uomus.edu.iq
Module Leader's Acad. Title			Module Leader's Qualification	
Module Tutor			e-mail	None
Peer Reviewer Name			e-mail	
Review Committee Approval			Version Number	

Relation With Other Modules		
انعلاقح مع انمـاد اندساسيح الأخشي		
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents
أهذاف انمادج اندساسيح ووتائج انتعهم وانمحتياخ الإسشاديح

Module Aims أهذاف انمادج اندساسيح	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. 2- Develop Connection and communication skills for students. 3- The ability to use modern software and applications professionally and employ technical aspects to serve the community.

Module Learning Outcomes
 	
مخشجاخ انتعهم نهمادج اندساسيح
	1- Cognitive goals :
	1.1 The student's comprehension of the material
	1.2 The ability to analyze and apply what you learn practically on the calculator.
	1.3 The evaluation is done by presenting the material to the students in the laboratory and then applied by them
	2- Skill objectives of the course:
	    2.1 direct questions and answers about the previous article.
	    2.2 Analyzing the student's ability to absorb through home-work, which is carried out at home and stored on the computer
	    2.3 Tablets to display in front of the students directly to know the extent of what they have learned from the previous lecture
	    2.4 Show educational films related to the subject in order to consolidate the ability to learn

Indicative Contents انمحتياخ الإسشاديح	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: 1- Providing the laboratory with the necessary and necessary devices and equipment. 2- Arranging computers in their appropriate places. 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. 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. 5- When connecting computers in the laboratory, it is taken into account that each computer system is linked to a separate electricity supply point. 6 - Provide an electric charger to avoid sudden power outages from the device. 7- The laboratory must be equipped with refrigeration equipment, vacuum cleaners, preventing sunlight from entering the equipment, internal lighting and computer hardware packaging. 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. 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.

Learning and Teaching Strategies

استشاتيجياخ انتعهم وانتعهيم

Strategies	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.

Student Workload (SWL)

انحمم انذساسي نهطانة

Structured SWL (h/sem) انحمم انذساسي انمنتظم نهطانة خلال انفصم	102	Structured SWL (h/w) انحمم انذساسي انمنتظم نهطانة أسٌعيا	7
Unstructured SWL (h/sem) انحمم انذساسي غيش انمنتظم نهطانة خلال	98	Unstructured SWL (h/w) انحمم انذساسي غيش انمنتظم نهطانة أسٌعيا	6.5

	انفصم			
Total SWL (h/sem) انحمم اندساسي انكهي نهطانة خلال انفصم	200			

Module Evaluation

<div dir="rtl">تَقييم انمادج اندساسيح</div>

		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	
	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)

<div dir="rtl">انمنهاج الاسثىعي اننظشي</div>

	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	**Exam**
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	**Discussion the home work.**
Week 16	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus)
انمهاج الاسُنعي نهمخنتش

	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 مصادس انتعهم وانتذسيس	
	1- غساوحميذ عثذ أساسياخ انحاسب وتطنيقاته انمكثيح / 4 أجضاء – أبد. انمجيذ و .د. صياد محمد عثد واخشون 2- **Donald H. Sanders, (1995), Computer today, Second edition, McGraw –hill** 3- **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** 4- **Any other materials available on the web.**	**Available in the Library?**
Required Texts		
Recommended Texts		
Websites		

APPENDIX:

GRADING SCHEME مخطط انذسجاخ				
Group	**Grade**	انتقذيش	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A - Excellent**	امتياص	90 - 100	Outstanding Performance
	B - Very Good	جيذ جذا	80 - 89	Above average with some errors
	C - Good	جيذ	70 - 79	Sound work with notable errors
	D - Satisfactory	متسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقثل	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX – Fail**	مقثل نقشاس	(45-49)	More work required but credit awarded
	F – Fail	ساسة	(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.

ملاحظح: هزا انممرج تم وضعه وتقنيمه مه قثم مذيشيح ضمان انجدج في وصاسج انتعهيم انعاني وانثحث انعهمي