Course Description - Computer applications 1

1. Course Name:
Computer Applications 1
2. Course Code:
COMA103
3. Semester / Year:
Second semester (spring) / first class / 2024-2025
4. Description Preparation Date:
1/2/2025
5. Available Attendance Forms:
personally
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours / 1.5 units
7. Course administrator's name (mention all, if more than one name)
Name: Omar Shamil Ahmed Email: omarshamil@uom.edu.iq
8. Course Objectives
• Enabling the student to become familiar with the computer, its components, and its uses in agricultural experiments. • Enabling the student to know and understand computer systems and programs used in analyzes of agricultural experiments. • Enabling the student to understand and realize modern digital technologies for various agricultural and scientific experiments. • Providing the student with the skills to deal with types of operating systems. • Enable the student to disassemble and assemble parts of fixed and laptop computers. • Enabling the student to use all data input and output devices used to improve agricultural production.
9. Teaching and Learning Strategies
• Interactive lecture • Brainstorming • Dialogue and discussion • Practical exercises • Self-learning and assigning tasks and reports

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2	A1: The student learns about the concept of computers and their role in the agricultural aspect	Introduction to computers and their importance in our daily lives The concept of computer systems and information technology	Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Evaluation of dialogue and discussion, quick questions, assignment of a report
2	2	B1: The student organizes computers according to their features, characteristics, and capabilities	Types of Computers Classifications of private and public computers	Interactive lecture, brainstorming, dialogue and discussion	Quiz, written test, homework
3	2	C1: The student connects the main parts of the motherboard, including the processor, memory, and buses	CPU components Computer Memory Primary Memory	Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Dialogue and discussion evaluation, quick questions, practical application
4	2	A2: The student compares the main types of memory (RAM, ROM, and Flash).	Main computer memory RAM, ROM, and flash memory	Interactive lecture, brainstorming, dialogue and discussion	Dialogue and discussion evaluation, Quiz, homework

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5	2	A3: The student is familiar with the most important characteristics of stationary disks compared to hard disks and external disks	Secondary computer memory / Part One Internal, static and external hard disks	Interactive lecture, brainstorming, dialogue and discussion + scientific visit	Dialogue and discussion evaluation, quick questions, Semester exam 1
6	2	B2: The student documents the types of optical discs and the advantages of each type	Secondary computer memory / Part Two Optical discs and cloud storage	Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Dialogue and discussion evaluation, Quiz, homework
7	2	D1: The student analyzes the input units in the computer to employ them in supporting the agricultural field	Computer input units Types of code readers Audio and visual input units	Interactive lecture, brainstorming, dialogue and discussion	Dialogue and discussion evaluation, quick questions, practical application
8	2	D2: The student employs computer output techniques to display agricultural data and results	Computer output units Image, audio and text display units	Interactive lecture, brainstorming, dialogue and discussion	Quiz, written test, homework
9	2	C2: The student chooses the	The concept of software and its types	Interactive lecture, brainstorming,	Dialogue and discussion

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		best application software to support work in the agricultural field	Systems software and application software	dialogue and discussion, assigning tasks and reporting	evaluation, quick questions, practical application
10	2	A4: The student learns about the Windows operating system and how to benefit from it	Windows operating system Desktop shortcut menu and PC icon	Interactive lecture, brainstorming, dialogue and discussion + scientific visit	Dialogue and discussion evaluation, semester exam 2, homework
11	2	A5: The student sorts the available choices into the desktop and PC shortcut menus	Shortlists Lists of folders and files	Interactive lecture, brainstorming, dialogue and discussion	Dialogue and discussion evaluation, quick questions, practical application
12	2	B3: The student extracts the important abbreviations included in the time, date, and language settings	Taskbar Part 1 Time, date and language settings	Interactive lecture, brainstorming, dialogue and discussion	Quiz, written test, homework
13	2	B4: The student determines the options available to ensure protection while the computer is connected to	Taskbar Part Two Communication and security settings	Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Evaluation of dialogue and discussion, quick questions, assignment of a report

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		the network			
14	2	C3: The student analyzes the research methods available on the computer and uses them in designing reports	Taskbar menus and shortcuts Part 1 Search menus and design windows	Interactive lecture, brainstorming, dialogue and discussion	Dialogue and discussion evaluation, Quiz, homework
15	2	A6: The student classifies incoming notifications according to their source from the network, security, and applications	Taskbar menus and shortcuts Part 2 Notification lists	Interactive lecture, brainstorming, dialogue and discussion	Dialogue and discussion evaluation, quick questions

11. Course Evaluation

Seq.	Evaluation methods	Evaluation date (week)	Degree	Relative weight %
1	Report 1	Week 1	1	1
2	Report 2	Week 13	1	1
3	Quiz 1	Week 2	2	2
4	Quiz 2	Week 4	2	2
5	Quiz 3	Week 6	2	2
6	Quiz 4	Week 8	2	2
7	Quiz 5	Week 12	2	2
8	Quiz 6	Week 14	2	2
9	Practical application 1	Week 3	1.5	1.5
10	Practical application 2	Week 7	1.5	1.5
11	Practical application 3	Week 9	1.5	1.5
12	Practical application 4	Week 11	1.5	1.5
13	Semester exam 1	Week 5	10	10
14	Semester exam 2	Week 10	10	10
15	Final practical exam	Week 15	60	60
	Total	Final semester exams	100%	100%

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12. Learning and Teaching Resources	
Required textbooks (curricular books, if any	The Lectures was prepared by computer lectures at the college based on several approved books
Main references (sources)	· Fundamental ideas of computer science · Resource usage of windows computer laboratories · Defining computer program parts
Recommended books and references (scientific journals, reports…)	Introduction to computers (computer basics), prepared by: Abdullah Al-Shahrani
Electronic References, Websites	· https://www.dawliatraining.com/training-packages-single/1025 · https://edu.gcfglobal.org/en/tr_ar-misc/what-is-a-computer-/1/ · https://www.edraak.org/programs/course-v1:Edraak+ICDL1+2019SP/

Instructor of theoritical part

Instructor of practical part
Omar Shamil Ahmed

Chairman of the scientific committee

A.Prof. Dr. Taha M. Taqi

Head of the department of Food science

A.Prof. Dr. Taha M. Taqi

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