Course Description - Computer applications 1

1. Course Name:
Computer Applications 1
2. Course Code:
COMA103
3. Semester / Year:
First semester / first stage / 2023-2024
4. Description Preparation Date:
1/2/2024
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
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 knows computers and their role in agriculture	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, Semester exam 1, final exam
2	2	A2: The student classifies computers according to their features, characteristics, and capabilities	Types of Computers Classifications of private and public computers	Interactive lecture, brainstorming, dialogue and discussion	Quiz, homework, Semester exam 1, final exam
3	2	B1: The student names 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, Semester exam 1, final exam
4	2	C1: The student lists 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, Semester exam 1, final exam
5	2	A3: The student schedules the most important characteristics of stationary disks compared to hard 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, final exam

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6	2	B2: The student explains 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, Semester exam 1, final exam
7	2	B3: The student shows the computer input units and their use 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, Semester exam 2, final exam
8	2	C2: The student benefit using of computer output units to display agricultural data and results	Computer output units Image, audio and text display units	Interactive lecture, brainstorming, dialogue and discussion	Quiz, homework, Semester exam 2, final exam
9	2	C3: The student employs the best application support software to support work in the agricultural field	The concept of software and its types Systems software and application software	Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Dialogue and discussion evaluation, quick questions, practical application, Semester exam 2, final exam
10	2	A4: The student discusses the features of 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, homework, Semester exam 2, final exam
11	2	A5: The student recognizes the options available in the shortcut menus for folders and files	Shortlists Lists of folders and files	Interactive lecture, brainstorming, dialogue and discussion	Dialogue and discussion evaluation, quick questions, practical application, Semester

					exam 2, final exam
12	2	C4: The student tries out important shortcuts included in the time, date, and language settings	Taskbar Part 1 Time, date and language settings	Interactive lecture, brainstorming, dialogue and discussion	Quiz, homework, Semester exam 2, final exam
13	2	B4: The student tests the options available to ensure protection while the computer is connected to the network	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, Semester exam 2, final exam
14	2	D1: The student communicates with his colleagues in presenting the research methods available on the computer and using 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, Semester exam 2, final exam
15	2	B5: The student extracts 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, final exam

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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%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any	Al-Zoubi, Muhammad Bilal. Al-Sharaya, Ahmed. 2017. Computer and software (basic skills). Dar al-mawsoaa for Publishing and Distribution. KSA.
Main references (sources)	• Gelenbe, E., & Kahane, J. P. (2009). *Fundamental concepts in computer science* (Vol. 3). World Scientific. • Miller, M. (2015). *Computer Basics Absolute Beginner's Guide, Windows 10 Edition (includes Content Update Program)*. Que Publishing.
Recommended books and references (scientific journals, reports…)	Abboud, Ziad Mahmoud. Abdel Majeed, Ghassan Hamid et al. 2018. Computer basics and office applications. Dar al-tebaa. Iraq.
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/

Practical subject teacher: Omar Shamil Ahmed

Chairman of the Scientific Committee: Prof. Dr Arkan M.A.

Head of Department:

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