

Course Description Form

1. Course Name:
Computer Science II
2. Course Code:
Phcls25 216-
3. Semester / Year:
1 /2025-2026
4. Description Preparation Date:
1/9/2025
5. Available Attendance Forms:
Students' signature on attendance sheet
6. Number of Credit Hours (Total) / Number of Units (Total)
3/2
7. Course administrator's name (mention all, if more than one name)
Theoretical
Name: Lecturer Dr. Safaa Mohammed Zeki Email: safaanawny@uomosul.edu.iq
Name: Assist. Lecturer Ghassan Ahmad Ismaeel Email: ghassanaldabbagh@uomosul.edu.iq
Practical
Name: Lecturer Dr. Safaa Mohammed Zeki Email: safaanawny@uomosul.edu.iq
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8. Course Objectives

Course Objectives	In our classroom, students will be able to apply practical technical skills—including presentation delivery, computer troubleshooting, and network security—to real-world scenarios, while building a foundational understanding of e-commerce systems and the core principles of artificial intelligence (AI), its modern applications (such as in smartphones), and the tools used to implement it. Furthermore, you will develop the ability to critically evaluate AI's societal impacts, navigate its ethical challenges, and form an informed perspective on the future of intelligent systems, thereby synthesizing knowledge across technical, functional, and human-centered domains of computing.
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9. Teaching and Learning Strategies

Strategy	Quizzes, seminars, practical and theoretical examinations
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	B1: Use effective presentation delivery skills and employ visual and technological aids to support the content.	Presentation skills	Practical	Practical-based exams and quizzes
2	2	A1: Understand the fundamentals of network security, e-commerce, computer troubleshooting with practical application.	Security and networking 1	Practical and theory	
3	2	A1: Understand the fundamentals of network security, e-commerce, computer troubleshooting with practical application.	Security and networking 2	Practical and theory	
4	2	A1: Understand the fundamentals of network security, e-commerce, computer troubleshooting with practical application.	E- commerce	Practical and theory	
5	2	A1: Understand the fundamentals of network security, e-commerce, and computer troubleshooting with practical application	Computer troubleshooting 1	Practical and theory	
6	2	A1: Understand the fundamentals of network security, e-commerce, computer troubleshooting with practical application.	Computer troubleshooting 2	Practical and theory	
7	2	A2: Explain artificial intelligence concepts, applications, and its role in society, including ethical considerations.	Introduction to AI	Practical and theory	
8	2	A2: Explain artificial intelligence concepts, applications, and its role in society, including ethical considerations.	The role of AI in modern smartphones	Practical and theory	

9	2	A2: Explain artificial intelligence concepts, applications, and its role in society, including ethical considerations.	Applications and tools of AI- 1	Practical and theory	
10	2	A2: Explain artificial intelligence concepts, applications, and its role in society, including ethical considerations.	Applications and tools of AI- 2	Practical and theory	
11	2	A2: Explain artificial intelligence concepts, applications, and its role in society, including ethical considerations.	AI and society	Practical and theory	
12	2	C1: Analyze ethical challenges related to artificial intelligence accountability, and make informed decisions that respect human values.	Ethical challenges In AI	Practical and theory	
13	2	A2: Explain artificial intelligence concepts, applications, and its role in society, including ethical considerations.	The future of AI	Practical and theory	
14	2	B1: Use effective presentation delivery skills and employ visual technological aids to support the content.	Spread sheet (Excel)1	Practical	
15	2	B1: Use effective presentation delivery skills and employ visual technological aids to support the content.	Spread sheet (Excel)2	Practical	

- A Spread sheet (Excel) lectures has been added to the curriculum as a 5% Update.

11.Course Evaluation

- 40 M practical assessment (attendance + quizzes + practice+ seminar)
- 60 M paper-based theoretical final exam

Total 100 M

12.Learning and Teaching Resources

Required textbooks (curricular books)	1- Graham Brown, David W, “Cambridge IGCSE Information Technology”, 3 rd Edition (2020) 2- Alan Evans, Kendall Martin, Mary Anne Poatsy, “Technology In Action Complete”, 16 th Edition (2020).
Main references (sources)	Lab. Manual for Practical Computer Science adopted by the department.
Recommended books and references (scientific journals, reports...)	الخضر علي الخضر/ اساسيات الحاسوب Ahmed Banafa, “Introduction to Artificial Intellegence (AI)”, 1 st Edition (2024).
Electronic References, Websites	YouTube

