Course Title:
Computer Science
Course Code:
WNR-11-06
Semester / Academic Year:
First Stage / First Semester
Description Preparation Date:
01/10/2024
Available Attendance Models:
Live Lectures
Total Credit Hours / Units:
1 theoretical hour per week, total credit hours: 1
Course Coordinator:
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Course Objectives
This course equips students with: 1. A fundamental understanding of computer science concepts, including hardware, software, operating systems, and the basics of networking and cybersecurity. 2. Knowledge of e-commerce services, especially electronic banking, and an introduction to artificial intelligence (AI), its history, types, and everyday applications. 3. Practical skills in using desktop operating systems (e.g., Windows), Microsoft Office applications, internet browsing, academic research, and basic computer troubleshooting. 4. The ability to operate and analyze AI-based applications on smart devices and apply AI concepts in real-world scenarios. 5. Awareness of ethical, legal, and security issues related to digital technology and AI, including digital privacy, discrimination, control, and monitoring. 6. Development of critical thinking, digital collaboration, responsible technology use, and proactive problem-solving skills to enhance quality of life and professional practices.
Strategy
• Theoretical Lectures. • Discussions. • Reports

Week	Hours	Intended Learning Outcomes	Topic / Unit Title	Learning Method	Assessment Method
1	1 theoretical hour	Introduce the concept of computers, their evolution, and importance in daily life	Computer Basics – Role of Computers – Device Evolution	Lecture + Visual Presentation	Written Test + In-Class Activity

2	1 theoretical hour	Distinguish between data and information; understand components of the computer	Electronic Computers – Data & Information – Components	Lecture + Visual Presentation	Written Test + In-Class Activity
3	1 theoretical hour	Distinguish different types of computers and their uses	Types of Computers	Lecture + Visual Presentation	Written Test + In-Class Activity
4	1 theoretical hour	Recognize hardware and software components	Computer Components – Hardware – Software	Lecture + Visual Presentation	Written Test + In-Class Activity
5	1 theoretical hour	Understand number systems and the limitations/advantages of computers	Number Systems – Personal Computers – Advantages	Lecture + Visual Presentation	Written Test + In-Class Activity
6	1 theoretical hour	Understand computer security and user privacy	Computer Security – Digital Ethics – User Privacy	Lecture + Visual Presentation	Written Test + In-Class Activity
7	1 theoretical hour	Recognize protection tools and intellectual property concepts	Protection Software – Types – Intellectual Property	Lecture + Visual Presentation	Written Test + In-Class Activity
8	1 theoretical hour	Identify cyberattacks and methods of protection	Hacking – Sources – Types – Risks	Lecture + Visual Presentation	Written Test + In-Class Activity
9	1 theoretical hour	Identify malware and protection methods	Spyware and Viruses – Damages – Prevention	Lecture + Visual Presentation	Written Test + In-Class Activity
10	1 theoretical hour	Apply protection steps and understand health effects of computer use	Protection Steps – Health Effects	Lecture + Visual Presentation	Written Test + In-Class Activity
11	1 theoretical hour	Understand functions and types of operating systems	Operating Systems – Functions – Types	Lecture + Visual Presentation	Written Test + In-Class Activity
12	1 theoretical hour	Identify applications of AI in various fields	AI Applications	Lecture + Case Study	Written Test + Presentation
13	1 theoretical hour	Explain the impact of AI on society and global relations	AI and Society	Class Discussion + Video	Class Participation + Report
14	1 theoretical hour	Analyze ethical issues in AI (privacy, labor market)	AI Ethical Challenges	Lecture + Open Discussion	Short Essay + Written Test
15	1 theoretical hour	Explore future trends and new AI technologies	Future of AI	Lecture + Modern Examples	Final Exam + Mini Project

Type	Grades	Assessment Methods	Grading Scale
Formative	5%	Quizzes	90–100: Excellent 80–<90: Very Good 70–<80: Good 60–<70: Pass 50–<60: Conditional Pass <50: Fail
	5%	Participation	
	10%	Midterm Theoretical Exam 1	
	10%	Midterm Theoretical Exam 2	
Summative	70%	Final Theoretical Exam	
Total	100%		

Learning and Teaching Resources	
Required Textbooks	Graham Brown, David Watson, *Cambridge Information Technology*, 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, *Technology In Action Complete*, 16th Edition (2020) Ahmed Banafa, *Introduction to Artificial Intelligence (AI)*, 1st Edition (2024) Curtis Frye & Lamb, *Microsoft Office 2019 Step by Step* Dr. Adel Abdulnoor, *Introduction to the World of AI*, 5th Edition
Main References	Windows 7 Office 2010
Recommended Books and Resources	• Computer science reference books • Academic reports and journals • Electronic references, websites • Introduction to Computers and the Internet, 5th Edition • Trusted websites and scientific electronic journals
Recommended online reference link:	https://www.kutub.info/library

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