2025/10/03 19:08 1/2 Computer Studies

Computer Studies

Course Title: Computer Studies	
Description	This course covers foundational and advanced topics in computer hardware, software, the binary number system, and programming. It begins with essential PC hardware concepts, including system architecture, microprocessors, memory, and the principles of Turing machines and Neumann architecture. The course then introduces software fundamentals, focusing on operating system tasks, the binary number system, and Excel skills. Students will learn Python programming, exploring input/output operations, and essential programming constructs like branching, loops, and library functions. Additionally, the course addresses basic algorithms, file management, computer viruses, and protection.
Semester	Autumn 2024
Neptun code	GEIAK201-B2A
Instructor	Dr. Nasraldeen Khleel
Credit Hours	4
Attendance Requirement	Students are required to attend at least 60% of the scheduled classes to be eligible for the course signature.
Examination	The examination is written, and students will receive some theoretical questions and some practical tasks from the studied material.

Topics and Schedule

Lecture #	Торіс
Lecture 1	Personal Computer (PC) Hardware Basic Concepts
Lecture 2	Processing Devices
Lecture 3	A functional system diagram of a computer, The microprocessor, The bus. Memory, libraries, Turing machine, Neumann principle
Lecture 4	Software basic concepts, Tasks of the operating system
Lecture 5	The Binary Number System
Lecture 6	Introduction, Basic and Intermediate Excel Skills
Lecture 7	Advanced Excel knowledge
Lecture 8	Midterm Exam
Lecture 9	The general structure of Python programs
Lecture 10	Python Data Structures, In- and out
Lecture 11	title, value and indicator
Lecture 12	Python library functions, Basic algorithms interpreted on vectors, Structures and basic file management, Computer viruses and protection

- Lecture notes
- Exercises
- Midterm Exam Questions

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