

1.	Field of study Biophysics				
2.	Faculty Faculty of Science and Technology				
3. Academic year of entry		2023/2024 (winter term), 2024/2025 (winter term)			
4.	Level of qualifications/degree	first-cycle studies			
5.	Degree profile	general academic			
6. Mode of study full-time		full-time			
7.	General information about the module				
Module name		Programming I			
Module code		W4-BF-S1-2-23-50A			
Number of the ECTS credits		3			
Language of instruction		Polish			
Purpose and description of the content of education		The subject "Programming I" serves as an introduction to the basics of programming for students. The objective of this course is to familiarize students with fundamental programming concepts and enable them to effectively create simple computer programs. During the classes, studer will learn about basic programming structures, such as variables, conditional statements, loops, and functions. They will also acquire problem-solving skills through programming by analyzing, designing, and implementing simple programs.			
List of modules that must be completed before starting this module (if necessary)		not applicable			

8.	Learning o	Learning outcomes of the module			
	Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)	
E1		The student is familiar with programming concepts such as variables, data types, control structures, and functions.	W08	1	
E2		The student is capable of writing code in a selected programming language, including syntax, logic, and good programming practices.	U06	1	

9.	Methods of conducting classes					
Code		Category	Name (description)			
a05		Lecture methods / expository methods	Explanation/clarification explication involving the derivation of a predetermined theorem from other, already known ones, in the number of steps specified by the person teaching the course			
e01		Practical methods	Laboratory exercise / experiment [also conducted as fieldwork] a method of practical application of knowledge; implemented in three stages: the recognition of a problem induced by the task content, the formulation of the problem and the attempt to solve it accompanied by the assessment of the effects; the goal is to acquire skills, abilities and habits, and to consolidate the acquired knowledge so that it becomes operational; the laboratory method assumes greater independence of learners than carrying out an experiment			



10.	Forms of teaching							
Code		Name	Number of hours		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes	
FZ1		laboratory classes	30		course work	E1, E2	a05, e01	
11.	11. The student's work, apart from participation in classes, includes in particular:							
Code		Category		Name (description)			Is it part of the BUNA?	
a02		Preparation for classes		Literature reading / analysis of source materials reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class				No
a03		Preparation for classes		Developing practical skills activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)			Yes	
c03		Preparation for verification of learning outcomes In e: a pl		Implementation of an individual or group assignment necessary for course/phase/ examination completion a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course			Yes	

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <u>https://usosweb.us.edu.pl</u>.