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

7. General information about th	ne module
Module name	Introduction to Biophysics with Elements of Biology
Module code	W4-BF-S1-2-23-14
Number of the ECTS credits	3
Language of instruction	Polish
Purpose and description of the content of education	The course aims to introduce the student to the fundamental issues of physics, biophysics with elements of cell biology. The student will learn the physical and biophysical basis of biological processes occurring in living organisms. The student will also learn about the most important experimental techniques used in biophysical research.
List of modules that must be completed before starting this module (if necessary)	not applicable

8. L	earning o	outcomes of the module		
С	Code	Description	Learning outcomes of the programme	Level of competent (scale 1-5)
E1		The student understands the importance of biophysics as an interdisciplinary science combining physics, biology, chemistry and medicine.	W01	1
E2		Understands and is able to explain the physical basis of the methods used in biophysical research characterizing the structure, dynamics and intermolecular interactions of biological systems.	W06 W07	1 1
E3		The student can describe the functioning of the human body on the basis of the laws of physics.	U02	1
E4		Is able to combine physical and biological knowledge to describe the physico-chemical basis of biological processes taking place in living organisms using the most important physical laws and appropriate mathematical tools.	K01 K02	1 1

9.	Methods of conducting classes		
	Code	Category	Name (description)
a01		' ,	Formal lecture/ course-related lecture a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided
b07			Activating methods: a case study a comprehensive description of a phenomenon connected with the selected discipline; reflecting the reality, presenting the 'what', 'where' and 'how' of the phenomenon, i.e., all of its key aspects to be discussed in class; used as a reproduction,



	presentation, discussion or diagnosis of factors that shape the phenomenon or interact with it; an in-depth qualitative
	analysis and evaluation of a selected phenomenon

10. Forms of teach	Forms of teaching				
Code	Name		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
FZ1	lecture	30	exam	E1, E2	a01
FZ2	discussion classes	15	course work	E3, E4	b07

11. The studen	L. 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	Yes	
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	
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content reading through the syllabus and getting acquainted with its content	No	
c03	Preparation for verification of learning outcomes	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	
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes	Yes	
d02	Consulting the results of the verification of learning outcomes	Development of a corrective action plan as well as supplementary/corrective tasks reviewing and selecting tasks and activities enabling the elimination of errors indicated by the academic teacher, their verification or correction resulting in completing the task with at least the minimum passing grade	No	

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