University of Silesia in Katowice

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 the module**	
Module name		Physics Repetitory
Module code		W4-BF-S1-1-23-08
Number of the ECTS credits		3
Language of instruction		Polish
Purpose and description of the content of education		The aim of the seminar is to systematize and supplement students' knowledge of the basics of mechanics at the level of the extended matriculation exam in physics. The student acquires the ability to solve problems in the field of kinematics and dynamics of a material point and a rigid body and fluid mechanics.
List of modules that must be completed before starting this module (if necessary)		not applicable

8.	**Learning outcomes of the module**			
	Code	**Description**	**Learning outcomes of the programme**	**Level of competenc (scale 1-5)**
	E1	The student understands the civilizational importance of physics, especially its applications in biophysics and medical physics.	W08	1
	E2	The student knows the units and laws of mechanics, knows how to solve simple physical problems.	U05	1
	E3	The student has the ability to present the basic laws of mechanics in an understandable manner, both orally and in writing.	U01	1

9.	**Methods of conducting classes**		
	Code	**Category**	**Name (description)**
	b02	Problem-solving methods	Lecture-discussion *transmission of content involving interaction with the lecture audience; discussion of lecture-related issues is one of its elements or constitutes its follow-up*
	b07	Problem-solving methods	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 teaching					
Code	**Name**	**Number of hours**	**Assessment of the learning outcomes of the module**	**Learning outcomes of the module**	**Methods of conducting classes**
FZ1	discussion classes	30	course work	E1, E2, E3	b02, b07

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
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
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class *exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class*	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

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.