

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.	7. General information about the module						
Module name		Visual Optics					
Module code		W4-BF-OO-S1-4-23-38					
Nun	nber of the ECTS credits	1					
Language of instruction		Polish					
		The purpose of the module is to provide information on the optics of vision, allowing students to understand and solve problems related to image formation, in a qualitative and quantitative way, as well as with the optics of the human visual system and optical correction. During the course, the student will acquire knowledge and understanding in the following thematic areas: eye model, powers of the optical elements of the eye, retinal image quality, radiation and the eye.					
List of modules that must be completed before starting this module (if necessary)		not applicable					

8.	Learning	earning outcomes of the module							
	Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)					
E1		The student knows and is capable of explaining in an understandable way (both orally and in writing): components of the optical system of the eye, schematic eye models, dioptrics of the eye, quality of retinal image, and effects of radiation on the eye.	W02	1					
E2		The student understands and is able to solve problems related to image formation, both qualitative and quantitative, as well as with the optics of human vision and optical correction.	W02 W05	1 1					
E3		Students can expand their knowledge of visual optics and find detailed information using professional literature.	U07 U08 W03 W05	1 1 1 1					
E4		Student understands the need for an ethical attitude and respect toward another human being - the patient.	К04	1					

9.	Methods of conducting classes				
	Code Category		Name (description)		
a01		Lecture methods / expository methods	Formal lecture/ course-related lecture		



Code	Name		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes		
10. Forms of teaching							
c06	Demonstration methods	a prese activities habit is	Demonstration-imitation a presentation of a model way of performing specific activities accompanied by a commentary; it aims at triggering imitation activities in an individual or in a group of participants observing the activities of the person teaching the course until the right habit is formed through regular exercise; the demonstration-imitation method is combined with a physical practice of activities/behaviours				
			a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided				

FZ1		15 s. includos in	course work E1, E2, E3, E4 a01, c06			
Code			Name (description)			Is it part of the BUNA?
a02	Preparation for classes	reading	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
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 out	examin a set of	nentation of an individual or group a nation completion activities aimed at performing an assign element of the verification of the learning	ned task, to be executed out o	f class, as an obligatory	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.