

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	Optical Dispensing I
Module code	W4-BF-OO-S1-5-23-43
Number of the ECTS credits	3
Language of instruction	Polish
Purpose and description of the content of education	The module details and extends the knowledge about the basics of optical dispensing, the type of spectacle frames and lenses, and the selection and implementation of visual aids in the form of prescription glasses. Students will learn the characteristics of the physical, chemical and biological properties of materials for the production of lenses and spectacle frames. During the classes, students will gain knowledge of the construction and parameters of spectacle frames and corrective lenses. Students will become familiar with the subject of and absorptive lenses. Particular emphasis will be placed on the optical properties and prismatic performance of spectacle lenses. As part of practical classes, students will acquire the skills of fitting and adjusting frames for the wearer. During the classes, they will acquire the ability to perform and verify monofocal visual aids. In addition, as part of the module, students broaden their knowledge about the impact of the setting of the spectacle lens in the corrective frame on its optical characteristics.
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 competence (scale 1-5)
E1	The student has the necessary knowledge of the physical, chemical and optical characteristics of spectacle lenses. Has the necessary knowledge about the properties of absorptive lenses.	U01 W05 W06	1 1 1
E2	The student has the necessary knowledge of the characteristics and nomenclature of the elements of spectacle frames as well as the physico-chemical characteristics and biological compatibility of the materials used for their production.	U01 W05 W06	1 1 1
E3	The student has the necessary knowledge and skills necessary to measure the parameters of lenses and spectacle frames. He has the necessary knowledge to independently select and adjust spectacle lenses and spectacle frames to the requirements and needs of the patient.	U01 U03 U04 W05	1 1 1 1

		W06	1
E4	The student is able to independently make and verify single-focal corrective glasses.	U03 U04	1 1
E5	The student knows and understands the principles of laboratory work, takes care of safety and hygiene in the laboratory, and conscientiously analyses experimental data.	U10 W10	1 1

9. Methods of conducting classes		
Code	Category	Name (description)
a01	Lecture methods / expository methods	Formal lecture/ course-related lecture <i>a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided</i>
e01	Practical methods	Laboratory exercise / experiment <i>[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</i>

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	lecture	20	exam	E1, E2, E3	a01
FZ2	laboratory classes	30	course work	E3, E4, E5	e01

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 <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>	Yes
a03	Preparation for classes	Developing practical skills <i>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)</i>	Yes
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content <i>reading through the syllabus and getting acquainted with its content</i>	No
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class <i>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</i>	No
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion <i>a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory</i>	Yes

		<i>phase/element of the verification of the learning outcomes assigned to the course</i>	
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 <i>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</i>	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>.