

1.	Field of study	Biophysics
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2023/2024 (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 II
Module code	W4-BF-OO-S1-6-23-45
Number of the ECTS credits	4
Language of instruction	Polish
Purpose and description of the content of education	<p>The module details and extends the knowledge of optical dispensing, in particular varifocal and specialized spectacle lenses, as well as making individual visual aids in the form of corrective glasses based on a prescription and individual measurements of the patient.</p> <p>During the course, the student will get acquainted with the optical tolerances adopted when making visual aids. During the classes, students will learn about the subject of correction with specialized and varifocal lenses. As part of the module, the student will also gain knowledge and skills in the field of correction of large vision defects and anisometropia. During laboratory classes, students will gain the skills of dimensioning and making advanced visual aids.</p>
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 has the necessary knowledge in the field of optical tolerance, necessary in the process of initial measurements, making visual aids and their control.	W05 W06 W08	1 1 1
E2	The student has the necessary knowledge about the aspects of spectacle frames and optics in the case of spectacle lenses for the correction of large vision defects and anisometropia.	W05 W06 W08	1 1 1
E3	The student has the necessary knowledge about the structure and properties of advanced spectacle lenses.	W05 W06 W08	1 1 1
E4	The student is able to select, center and mount varifocal and specialist lenses in a corrective frame. Perform quality control of the glasses made.	U03 U04	1 1

		W05	1
		W06	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	1
		W10	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	15	course work	E1, E2, E3	a01
FZ2	laboratory classes	30	course work	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 phase/element of the verification of the learning outcomes assigned to the course</i>	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 <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
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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>.