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	**Optometric Procedures**
Module code	W4-BF-OO-S1-6-23-46
Number of the ECTS credits	4
Language of instruction	Polish
Purpose and description of the content of education	The aim of the module is to acquire knowledge of basic optometric procedures by students, which is an extension of the refraction module. Using the learned optometric procedures, students will be able to measure the parameters of accommodation (response by dynamic retinoscopy as well as efficiency, stability and amplitude of accommodation), vergence and check eye movements in patients. In addition, as part of the module, students will learn about the initial binocular vision tests (NPC, Hirschberg test / Kappa angle, Bruckner test) and will expand their skills by performing and interpreting the results of the objective and subjective cover test (alternating, unilateral) and the Maddox Rod and Howell test, as well as measuring heterophoria and ranges of fusion vergence using the von Graefe method.
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 influence of spectacle correction, filters, prisms, contact lenses on the visual system.	W05 W06	1 1
E2	The student has basic knowledge of optometric procedures and understands the operation of individual optometric tests.	W05 W06 W07	1 1 1
E3	The student understands the principles of optometric examination, selects procedures in a selective way for a given patient, acts in accordance with professional ethics.	U04 W05 W06 W07	1 1 1 1
E4	The student is able to independently conduct a basic optometric examination by selecting the necessary procedures depending on the patient and interpret the patient's results on the basis of individual procedures.	U04 W05 W06	1 1 1

		W07	1
E5	The student is able to refer the patient to another specialist in the event of a diagnosis of a pathological disorder and the need for specialist advice.	K01 K04 U10 W09	1 1 1 1

9. Methods of conducting classes

Code	Category	Name (description)
a01	Lecture methods / expository methods	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*
e01	Practical methods	Laboratory exercise / experiment *[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*

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 *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
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

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*	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.