

1.	Field of study	Physics
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2025/2026 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7.	General information about the module		
Module name		Set of Diploma Courses I: New Technologies in Ophthalmic Optics and Optometry	
Module code		W4-FZ-OM-S2-2-25-05B	
Number of the ECTS credits		2	
Language of instruction		Polish	
Purpose and description of the content of education		<p>This module aims to introduce students to the latest developments in the field of ocular optics and optometry. Innovative technologies used in the design and production of spectacle lenses, modern methods of eye examination and advanced diagnostic tools used in optometry will be discussed. aware of the role of innovation and the need for continuous development in their professional career.</p> <p>Training content:</p> <ol style="list-style-type: none"> 1.Modern materials and coatings in spectacle lenses. 2.Digital technologies in ocular optics. 3.Modern measurement and diagnostic methods in optometry. 4.Technologies supporting diagnostics and therapy of the visual organ. 5.Spectacle lens technologies designed to control the progression of myopia. 6.Trends and future of ophthalmic optics and optometry. <p>As part of his/her own work, the student, based on lecture notes and supplementary literature, strives to consolidate the knowledge acquired.</p> <p>The module is in the form of lecture classes. The lecture in the form of a multimedia presentation discusses selected issues.</p> <p>The module ends with a graded assessment based on a test or assignment.</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 knows and understands new technologies used in ophthalmic optics and optometry.	KF_W04 KF_W07 KF_W08	4 4 4

E2	The student is able to analyze and evaluate the properties of modern spectacle lenses and their applications.	KF_U07 KF_U08 KF_U09 KF_U10	4 4 4 4
E3	The student is able to use modern diagnostic devices in eyesight examinations.	KF_U05 KF_U06	3 3
E4	Understands the importance of innovation in optometry and its impact on the future of the industry.	KF_K04 KF_K07 KS_OOD W_OOD	4 4 4 4
E5	Searches, selects, analyzes, evaluates, and classifies information using various sources and methods.	KF_U09 KF_U12	2 2
E6	Understands the need for further education, performs self-assessment, is able to supplement and improve acquired knowledge and skills; is able to work in a team, communicate with the environment in the workplace and outside it.	KF_K01 KF_K02 KF_K03 KF_K06 KF_K08 KF_U17	2 2 2 2 2 2

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>

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, E4, E5, E6	a01

11. The student's work, apart from participation in classes, includes in particular:				
Code	Category	Name (description)		Is it part of the BUNA?
a01	Preparation for classes	Search for materials and review activities necessary for class participation <i>reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes</i>		No
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>		No

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>	Yes
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

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>.