

Subject card

Subject name and code	Innovations in oceanography – a look into the future, PG_00121053						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Panasiuk				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	0.0	0.0	0.0	20
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	20		0.0		10.0	30
Subject objectives	The purpose of the course, which will be taught by practitioners and representatives of employers, is to familiarize students with the practical use of the latest developments and proposed solutions in the field of innovative improvements, technologies that allow more effective study of the marine environment.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OCEANMU2-W03] knows and understands research methods used in oceanography and related sciences	knows and understands to an in-depth degree the research methods used currently used in oceanography, taking into account the specifics of various specialties	[SW3] text preparation/written work
	[OCEANMU2-W05] knows and understands the principles of planning and conducting field and laboratory research as well as advanced methods and tools of scientific research, especially in the field of the studied specialty	knows and understands to an in-depth degree the techniques and tools used in the work of an oceanographer	[SW3] text preparation/written work
	[OCEANMU2-W07] knows and understands legal regulations, principles of sustainable development of the marine environment, its protection and management of the marine environment and its resources	knows and understands the principles of management of the marine environment resources, taking into account the principles of sustainable development	[SW1] oral statement/conversation/discussion [SW3] text preparation/written work
	[OCEANMU2-U09] can take part in a discussion/debate using substantive arguments, has the ability to formulate opinions based on scientific knowledge and experience and creating synthetic summaries	Is able to speak in a discussion, present its position and evaluate other opinions on oceanographic issues	[SU1] oral statement/conversation/discussion
	[OCEANMU2-K04] is ready to critically evaluate his/her knowledge and received content in the field of natural sciences in particular in the field of the studied specialty, a in problematic situations, supports oneself with knowledge experts	Critically assesses his knowledge, uses the knowledge of experts	[SK1] oral statement/conversation/discussion
Subject contents	A1. Characteristics of the institution represented by the presenter A2. Scientific research / monitoring work carried out A3. Measurement techniques used in practice A4. Other characteristics of work in the profession		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	esej	51.0%	100.0%
Recommended reading	Basic literature	According to the problems of the lectures, individually proposed by the lecturers.	
	Supplementary literature	According to the problems of the lectures, individually proposed by the lecturers.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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