University of Gdańsk

Subject card

Subject name and code	Field Classes at Sea in Biological Oceanography - field classes, PG_00206160						
Field of study	Oceanography						
Date of commencement of studies	October 2027		Academic year of realisation of subject		2028/2029		
Education level	Bachelor'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		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Dziubińska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	50.0	0.0	0.0	0.0	50
	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	50		4.0		71.0	125
Subject objectives	The aim of the course is to develop the student's skills in conducting oceanographic work and cooperation in a research team. In addition, planning and conducting research in the field (including on a ship) and in the laboratory, including performing basic analyzes in the field of biological oceanography using appropriate oceanographic apparatus and equipment.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-U02] is able to independently and collaboratively conduct observations and perform measurements in the field or laboratory using appropriately selected techniques, tailored to the research problem	Is able to to individually and collectively plan and carry out research and measurements in the field of biological oceanography using appropriately selected measurement and analytical techniques.	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work
[OCEANL3-U11] is able to work individually and collaborate in a team, assuming various roles and performing different tasks	Able to work individually and collaborate in laboratory and field teams, performing various roles and carrying out different tasks in the field of biological oceanography.	[SU8] observation of student's independent or team work
[OCEANL3-W07] knows and understands the principles of occupational health and safety for an oceanographer	Knows and understands the applicable occupational health and safety rules for biological oceanographer at sea and in the laboratory.	[SW1] oral statement/ conversation/discussion
[OCEANL3-W02] has a broad knowledge and understanding of physical, biological, chemical, and geological processes and phenomena occurring in aquatic environments, with particular emphasis on the marine environment	Knows and understands the relationships between the components of the aquatic environment, identifies and correctly describes basic natural phenomena and explains them in relation to the processes occurring in the marine environment.	[SW3] text preparation/written work [SW5] implementation of a problem task
[OCEANL3-K01] is willing to plan and implement, individually or as a team, the subsequent stages of the entrusted task, is willing to take responsibility for the results of these works, effectively cooperates in the team and performs various roles in it	Is willing to carry out subsequent stages of the entrusted task in the field of biological oceanography, is ready to take responsibility for its results, effectively cooperates in the team, performing various roles in it.	[SK8] observation of student's independent or team work
[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions	Able to analytically and synthetically process research and analysis results in the field of biological oceanography and, on this basis, draw correct conclusions.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU3] text preparation/written work

Subject contents

Field work will be carried out within the designated research site, and the collected material will be used to perform laboratory analyses. The research will be multi-aspect in nature - within the scope of research that can be performed by the student within biological oceanography - using basic research methods and techniques. Field and laboratory research will be planned and carried out with extensive student participation. A multidimensional approach to the assigned research tasks will allow to identify, describe and understand the basic phenomena occurring in the marine environment and their complex nature. Program contents: Methods of obtaining and preserving environmental samples for biological oceanography research, qualitative-quantitative laboratory analysis of collected biological material.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Activity during classes	51.0%	30.0%
Presentations	51.0%	70.0%

Recommended reading

Basic literature	E. Szymczak (red.), 2020, Podstawy interdyscyplinarnych badań Morza Bałtyckiego. Skrypt do zajęć dla studentów studiów licencjackich na kierunku Oceanografia The literature is provided and updated on an ongoing basis, depending on the research issues undertaken.
Supplementary literature	The literature is provided and updated on an ongoing basis, depending on the research issues undertaken.
eResources addresses	

Example issues/ example questions/ tasks being completed

Collecting biological samples in the sea and coastal zone using various probes and nets

Performing laboratory analyses

Data analysis and presentation of results

Work placement

Not applicable

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