University of Gdańsk

Subject card

Subject name and code	Specialization workshops at sea in the field of biological oceanography - field exercises, PG_00118068						
Field of study	Oceanography						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2025/2026			
Education level	undergraduate studies		Subject group	Obligatory subject group 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				
Conducting unit	Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Luiza Bielecka				
	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						
	Additional information: Project method (research, implementation, practical project)						
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		20.0	45.0	115	
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-W02	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-K05] is willing to take responsibility for the safety of his/ her own and others' work, is aware of the risks and threats resulting from the work performed	Is willing to comply with occupational health and safety rules, take care of the specialist equipment entrusted to him, is aware of the risks and threats arising from work in the field and laboratory	[SK8] observation of student's independent or team work
OCEANL3-W05	Knows and understands in-depth the basic techniques, research methods and statistical tools used in biological oceanography to describe and interpret processes in the sea	[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, 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-U05	Is able to use specialized computer software and statistical methods to analyze data and describe processes occurring in the marine environment	[SU3] text preparation/written work
OCEANL3-W07	Knows and understands the applicable occupational health and safety rules for an oceanographer at sea and in the laboratory	[SW3] text preparation/written work [SW5] implementation of a problem task
OCEANL3-U11	Is able to to work individually and cooperate in laboratory and field groups, performing various functions and performing various tasks in them	[SU8] observation of student's independent or team work
OCEANL3-U02	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-U03	Is able to analyze research and analysis results analytically and synthetically and draw correct conclusions based on them	[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
correctness of the prepared reports	51.0%	50.0%
compliance with the rules applicable during field and laboratory classes	51.0%	20.0%
active participation	51.0%	30.0%

Recommended reading

Basic literature	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	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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