University of Gdańsk

Subject card

Subject name and code	Regional Oceanography - Case Studies - seminar, PG_00206198						
Field of study	Oceanography						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Anita Lewandowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	60.0	0.0	0.0	0.0	0.0	60
	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	60		2.0		38.0	100
Subject objectives	Improving the ability to acquire, analyze available data and interpret them based on the latest scientific reports. Developing the ability to express opinions, on scientific topics, supported by argumentation.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANMU2-W03] has an in-depth understanding of research methods used in oceanography and related sciences, and interprets their mechanisms and interrelationships across different spatial and temporal scales	student knows and deeply understands the research methods used in oceanography	[SW2] presentation/project/paper/ report [SW3] text preparation/written work
[OCEANMU2-U08] is able to prepare a study of a given issue/ problem in Polish and a selected foreign language in written form (short scientific text, documented research work) and orally (paper, presentation) and discuss with specialists on topics related to oceanographic issues, with particular emphasis on the studied specialty	Students proficiently communicate in English, including the use of professional terminology	[SU2] presentation/project/paper/ report
[OCEANMU2-W02] knows and understands complex processes and phenomena occurring in the marine environment, with particular emphasis on the coastal zone, as well as complex relationships between living and non-living elements of the aquatic environment	Student has a deep knowledge and understanding of the complex physical, biological, chemical and geological phenomena, and the natural processes taking place in marine environment and the coastal zone; students can explain and analyze the interrelations among the phenomena and processes that occur in the marine environment	[SW2] presentation/project/paper/ report [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	Students can synthesize and analyze their own opinions and those of other authors	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU3] text preparation/written work
[OCEANMU2-K01] is ready to plan, implement and supervise, individually or collectively, next stages of the entrusted task, is ready to take responsibility for its results;	Students can work and cooperate in a team by actively assuming different roles, including the role of a leader	[SK2] presentation/project/paper/ report

Subject contents

The course will explore the recent literature highlighting various aspects of marine systems, e.g.:
- the geology, processes, and paleo-archives hidden beneath the worlds oceans,
- biogeochemical cycling of elements and alterations in ocean and atmospheric chemistry, geoengineering techniques for mitigation of climate
change, influence of outdoor and indoor air pollutions on people health and their quality of life in the Baltic Sea region,
- physical processes, ocean-atmosphere interactions, elements of numerical modeling,
- biological processes, effect of global changes on biota and ecosystem functioning.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Presentation	51.0%	100.0%

Recommended reading

Basic literature	Publications from scientific journals
Supplementary literature	Publications from scientific journals
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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