University of Gdańsk

Subject card

Subject name and code	Geological mapping of marine areas – laboratory classes, PG_00193014						
Field of study	Geology						
Date of commencement of studies	October 2026		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		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Robert Sokołowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	Design of marine cartographic works, development of maps and cross-sections based on cartographic works.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOLL3_U10] is able to work individually and cooperate in laboratory and field groups performing various functions in them and performing various tasks	Able to work individually and collaboratively in a group during marine geological studies performing a variety of functions and tasks	[SU2] presentation/project/paper/ report
[GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world	He knows the structure and geological development of the marine area in Poland and in the world	[SW2] presentation/project/paper/ report
[GEOLL3_K01] is willing to plan and implement, individually or as a team, the next stages of the entrusted task, take responsibility for its results, effectively cooperate in the team by performing various roles in it	Is ready to plan and execute, individually or as a team, the next steps in marine geoplogical mapping, take responsibility for the results	[SK2] presentation/project/paper/ report [SK8] observation of student's independent or team work
[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements	Be able to apply basic surveying and analytical techniques for mapping the seabed	[SU2] presentation/project/paper/ report
[GEOLL3_W06] knows statistical and IT tools as well as the principles of preparing engineering and geological documentation and cartographic materials	Is familiar with statistical and IT tools and the principles of seabed mapping and documentation	[SW2] presentation/project/paper/ report
[GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues	Be able to use source information, in Polish and English, including archival and electronic databases, in the field of seabed geological mapping	[SU2] presentation/project/paper/ report
[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	Knows and understands terminology appropriate to marine geological mapping	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them	Knows and understands the geological structure of the seabed, defines methods for its research	[SW2] presentation/project/paper/ report
[GEOLL3_U05] can reconstruct the history of geological development of selected regions in Poland and in the world on the basis of maps, cross-sections and exposures in the field	Be able to reconstruct the history of marine geological development in Poland and worldwide on the basis of maps, cross-sections and geophysical research	[SU2] presentation/project/paper/ report

Subject contents

Geological data analysis, design of mapping works.
Geomorphological analysis of the seabed.
Preparation of seabed maps and geological cross-sections.
Presentation of marine cartographic materials.
Preparation of a cartographic research project of a selected part of the seabed.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written paper for evaluation	66.0%	100.0%

Recommended reading

Basic literature	Instrukcja w sprawie opracowania Mapy geośrodowiskowej Polski w skali 1:50 000. Państw. Inst. Geol., Warszawa, 2005
Supplementary literature	Labus M., Labus K., 2008. Podstawy geologii strukturalnej i kartografii geologicznej, Wyd. Politechniki Śląskiej, Gliwice Słowański W., Kotański Z., Hakenberg M., Królikowski C., Szczypa S., 1989. Kartografia geologiczna, Wyd. Geologiczne, Warszawa Instrukcja opracowania i wydania Szczegółowej mapy geologicznej Polski w skali 1: 50 000. 1996. PIG, Warszawa
eResources addresses	

Example issues/ example questions/ tasks being completed

analysis of the deposit potential of a selected part of the Baltic Sea seabed

Work placement

Not applicable