University of Gdańsk

Subject card

Subject name and code	Geological mapping of marine areas - lecture, PG_00193050		
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	15.0	0.0	0.0	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

To familiarise students with the specifics of marine mapping surveys, to present the methodology of marine geological mapping, the use of non-invasive survey methods, the preparation of geological maps of the marine dan, application for scientific and application purposes.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	Knows and understands terminology specific to marine geological mapping	[SW4] test/exam - oral or written
[GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world	Knows the structure and geological development of marine areas in Poland and worldwide	[SW4] test/exam - oral or written
[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 past and present seabed phenomena and processes, defines methods of their study	[SW4] test/exam - oral or written
[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 information technology tools and with the principles for producing marine cartographic material	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>Terminology used in marine geological cartography.

Methodology and specifics of marine geological cartography.

Sources of information and design of marine cartographic surveys.

Use of non-invasive methods of seabed surveys.

Surface and depth maps of the seabed.

Analysis of bathymetric and seismoacoustic data of the seabed.

Delineation of geological units and boundaries.

The role of marine cartography in scientific research and applied applications.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written pass</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Instrukcja w sprawie opracowania Mapy geośrodowiskowej Polski w skali 1:50 000. Państw. Inst. Geol.,
Warszawa, 2005.</td></tr><tr><td>Supplementary literature</td><td>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</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Main methods of seabed mapping</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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