University of Gdańsk

Subject card

Subject name and code	Physical Geology - laboratory , PG_00205203		
Field of study	Oceanography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Bachelor'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	1	Language of instruction	Polish
Semester of study	1	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Marine Geology -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Patrycja Jernas	
	Teachers	dr Patrycja Jernas dr Angelika Szmytkiewicz	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	35.0	0.0	0.0	35
	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	35	3.0	37.0	75

Subject objectives	Ability to macroscopically identify minerals, rocks and fossils.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression	Is able to use the current scientific terminology in various forms of expression in the field of physical geology (curriculum content: (B. 1-6)	[SU4] test/exam - oral or written
[OCEANL3-U12] is able to systematically expand and update oceanographic knowledge and enhance professional qualifications	Is able to systematically expand and update knowledge in the field of physical geology and improve professional qualifications (curriculum content: B.1-6)	[SU4] test/exam - oral or written
[OCEANL3-W01] has an advanced knowledge and understanding of the terminology used in oceanography and related exact and natural sciences (in Polish and a selected foreign language)	To an advanced degree, knows and understands the terminology specific to physical geology (curriculum content:B.1-6)	[SW4] test/exam - oral or written
[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 basic physical, biological, chemical and geological processes and phenomena occurring in the aquatic environment, with taking into account endo- and exogenous processes (curriculum content: B. 1-6)	[SW4] test/exam - oral or written
[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions	Is able to identify minerals, rocks and fossils and concludes about their genesis (content curriculum: (B.1-6)	[SU4] test/exam - oral or written

Subject contents

B. Subjects of the exercises

B.1 Basics of mineralogy

B.2. Overview of minerals and their identification based on macroscopic features

B.3. Criteria for petrographic classifications

B.4. Overview of the most important rocks and their characteristics (mineral composition, rock structures and textures)

B.5. Basic concepts of paleontology

B.6. Overview of basic groups of index and rock-forming fossils

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test II	51.0%	50.0%
test I	51.0%	50.0%

<table>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>A. Literature required for final course credit:

A.1. used during classes

• Książkiewicz M., 1979. Geologia dynamiczna. Wyd. Geologiczne, Warszawa
• Witak M., Pruszkowska-Caceres M., Szymczak E., 2015. Podstawy geologii. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk
• Jaroszewski W. (red.) 1986. Przewodnik do ćwiczeń z geologii dynamicznej. Wyd. Geologiczne, Warszawa
• Mizerski W., 2010. Geologia dynamiczna, Wydawnictwo Naukowe PWN, Warszawa
• Czubla P., Mizerski W., Świerczewska-Gładysz, 2005, Przewodnik do ćwiczeń z geologii, Wydawnictwo Naukowe PWN,Warszawa

A.2. studied independently by the student

• Allen P.A., 2000. Procesy kształtujące powierzchnię Ziemi, Wydawnictwo Naukowe PWN, Warszawa
• Jaroszewski W. (red.) 1985. Słownik geologii dynamicznej. Wyd. Geol., Warszawa
• Skoczylas J. 1996. Budowa Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wydawnictwo Kurpisz, Poznań
• Witt. A., Borówka K.R. 1997. Rzeźba powierzchni Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wydawnictwo Kurpisz, Poznań</td></tr>
<tr><td>Supplementary literature</td><td>• Foster R.J. 1992. Physical geology. Wyd. Columbus. Toronto-London-Sydney.
• Graniczny M., Mizerski W. 2009. Katastrofy przyrodnicze. Wydawnictwo Naukowe PWN, Warszawa</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">• Genesis of minerals
• Physical properties of minerals
• Classification of rocks
• Systematic review of the major groups of marine invertebrates fossil</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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