

Subject card

Subject name and code	Physical geology - laboratory exercises, PG_00054232						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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						
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		25.0		30.0	90
Subject objectives	Ability to macroscopically identify minerals, rocks and fossils.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	OCEANL3-U03	Is able to identify minerals, rocks and fossils and concludes about their genesis (content curriculum: (B.1-6)	[SU4] test/exam - oral or written
	OCEANL3-U12	Is able to systematically expand and update knowledge in the field of physical geology and improve professional qualifications (curriculum content: B.1-6)	[SU8] observation of student's independent or team work
	OCEANL3-U01	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-W02	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-K04] is willing to constantly deepen knowledge in the field of oceanography and improve professional qualifications, supported by the knowledge of experts	Is ready to continuously deepen the knowledge of physical geology and to improve professional qualifications, to be supported by the knowledge of experts (content of the curriculum: B.1-6)	[SK8] observation of student's independent or team work
	OCEANL3-W01	To an advanced degree, knows and understands the terminology specific to physical geology (curriculum content: B.1-6)	[SW4] 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
	colloquium II	51.0%	50.0%
	colloquium I	51.0%	50.0%

Recommended reading	Basic literature	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
	Supplementary literature	• Foster R.J. 1992. Physical geology. Wyd. Columbus. Toronto-London-Sydney. • Graniczny M., Mizerski W. 2009. Katastrofy przyrodnicze. Wydawnictwo Naukowe PWN, Warszawa
	eResources addresses	
Example issues/ example questions/ tasks being completed	• Genesis of minerals • Physical properties of minerals • Classification of rocks • Systematic review of the major groups of marine invertebrates fossil	
Work placement	Not applicable	

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