University of Gdańsk

Subject card

Subject name and code	Physical Geology - lecture, PG_00206112		
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	exam
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 hab. Małgorzata Witak, prof. UG	
	Teachers	dr hab. Małgorzata Witak, prof. UG	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

E-learning hours included: 0.0

Additional information:

lecture with multimedia presentation

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	30	1.0	44.0	75

Subject objectives	Understanding the relationship of endogenous and exogenous processes to the relief of the Earth's surface

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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 marine geology and improve professional qualifications	[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)	Knows and understands, at an advanced level, the terminology used in phisical geology	[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 willing to constantly deepen knowledge in the field of phisical geology and improve professional qualifications, supported by the knowledge of experts	[SK4] 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	Has an in-depth knowledge and understanding of physical, biological, chemical and geological processes and phenomena occurring in the aquatic environment, with particular emphasis on endogenous and exogenous processes	[SW4] test/exam - oral or written

Subject contents

Characteristics of the Earth's geospheres physical and chemical parameters. Horizontal and vertical variation of the Earth's crust. Endogenic processes (magmatism, diastrophism, metamorphism). Causes and effects of lithosphere plate tectonics. Weathering processes and their relationship with climate. Characteristics of terrestrial environments: aeolian, glacial, fluvioglacial, fluvial and limnic. The sculpting activity of the sea.

Prerequisites and co-requisites

Assessment methods and criteria

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

Recommended reading

Basic literature	Mizerski W., 2010. Geologia dynamiczna, Wydawnictwo Naukowe PWN, Warszawa (in Polish) Witak M., Pruszkowska-Caceres M., Szymczak E., 2015. Podstawy geologii. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk (in Polish)
Supplementary literature	Allen P.A., 2000. Procesy kształtujące powierzchnię Ziemi, Wydawnictwo Naukowe PWN, Warszawa (in Polish) Jaroszewski W. (red.) 1985. Słownik geologii dynamicznej. Wyd. Geol., Warszawa (in Polish) Skoczylas J. 1996. Budowa Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wydawnictwo Kurpisz, Poznań (in Polish) Witt. A., Borówka K.R. 1997. Rzeźba powierzchni Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wydawnictwo Kurpisz, Poznań (in Polish)
eResources addresses	

Example issues/ example questions/ tasks being completed

1. Describe the volcanism of the spredding and subduction zones

2. List 5 rock-forming minerals

3. Describe accumulation forms associated with glacial activity

Work placement

Not applicable

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