University of Gdańsk

Subject card

Subject name and code	Marine Paleoenvironments and Methods of Investigation - laboratory , PG_00206144		
Field of study	Oceanography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2029/2030
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	3	Language of instruction	Polish
Semester of study	5	ECTS credits	1.0
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 hab. Małgorzata Witak, prof. UG	
	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

Ability to apply stratigraphic methods (biostratigraphic, lithostratigraphic, diastrophic) in determining the age of geological objects and processes.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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)	has an advanced knowledge and understanding of the terminology used in stratigraphy and historical geology	[SW4] test/exam - oral or written
[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions	is able to identify fossils, sedimentary rocks and tectonic structures and, on their basis, to make correct inferences about exogenous processes in the past	[SU4] test/exam - oral or written
[OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression	is able to use current scientific terminology in a variety of forms of expression in stratigraphy and historical geology	[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 his/her knowledge of historical geology and improve professional qualifications	[SU4] 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 to an advanced level the interrelationship between animate and non-living elements of the aquatic palaeoenvironment, identifies and correctly describes basic geological phenomena and explains their course in relation to past marine processes	[SW4] test/exam - oral or written
[OCEANL3-W05] has an advanced knowledge of techniques, research methods, and tools (mathematical, statistical, and computational) used by oceanographers to describe and interpret processes and phenomena occurring in the marine environment	has an advanced knowledge of research techniques, methods and tools and understands the importance of basic research methods for the determination of relative and absolute ages of geological events and is able to interpret them correctly in relation to exogenous processes in the past	[SW4] test/exam - oral or written

Subject contents

Geochronological, chronostratigraphic, lithostratigraphic and biostratigraphic units. Application of stratigraphic principles and Walther's law. Sedimentary rocks as indicators of marine sedimentary environments

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%

Recommended reading

Basic literature	Orłowski S. Szulczewski M. 1990. Geologia historyczna. Cz. I. Wyd. Geol., Warszawa Mizerski W., Orłowski S. 2005. Geologia historyczna dla geografów. Wydawnictwo Naukowe PWN, Warszawa
Supplementary literature	Racki G., Narkiewicz M., 2006, Polskie Zasady Stratygrafii, PIG, Warszawa Gould S. J. (red.), 1998. Dzieje życia na Ziemi. Świat Książki, Warszawa Schopf W. J., 2002. Kolebka życia: o narodzinach i najstarszych śladach życia na Ziemi, Wydawnictwo Naukowe PWN, Warszawa Stanley S. M., 2002. Historia Ziemi, Wydawnictwo Naukowe PWN, Warszawa van Andel, T.H., 1997. Nowe spojrzenie na starą planetę. Wyd. Naukowe PWN, Warszawa
eResources addresses	

Example issues/ example questions/ tasks being completed

1. List the geochronological and chronostratigraphical units of the Palaeozoic

2 Explain the differences between the various unconformities

3. Interpret environmental changes based on the geological profile

Work placement

Not applicable

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