University of Gdańsk

Subject card

Subject name and code	The Basics of Paleontology - lecture, PG_00205322		
Field of study	Oceanography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	2.0
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		

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	2.0	18.0	50

Subject objectives

Understanding of the mechanisms of evolution of marine invertebrates. Ability to relate fossils to rock age, environment and lifestyle. Knowledge of the importance of fossils in the geological sciences

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions	can identify selected groups of marine invertebrates	[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 paleontology	[SW4] 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 paleontological knowledge and improve professional qualifications	[SU1] oral statement/conversation/ discussion
[OCEANL3-U06] is able to formulate and solve advanced problems related to the functioning of individual components of the marine environment, using knowledge from various fields and scientific disciplines	is able to define the basic relationships concerning the functioning of the different components of the marine palaeoenvironment and the fossils associated with it	[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 the applicable scientific terminology in the field of paleontology	[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 the basic geological processes and phenomena taking place in the aquatic environment, with particular reference to the marine palaeoenvironment, and explains the mechanism of evolution	[SW4] test/exam - oral or written

Subject contents

Basic concepts in palaeontology. Evolution of the main groups of marine invertebrates. Ecstinctiology

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	Lehmann U., Killmer G., 1991. Bezkręgowce kopalne, Wyd. Geologiczne, Warszawa Witak M., 2015. Elementy paleontologii. W Witak M. et al Podstawy paleontologii. Wyd. UG, Gdańsk
Supplementary literature	Radwańska U., 1999. Przewodnik do ćwiczeń z paleontologii, Wyd. Naukowe INVIT, Warszawa Dzik J., 1997. Dzieje życia na Ziemi, Wyd. Naukowe PWN, Warszawa Raup D.M., Stanley S.M., 1984. Podstawy paleontologii, Wyd. Naukowe PWN, Warszawa Stanley S.M., 2002. Historia Ziemi, Wyd. Naukowe PWN, Warszawa
eResources addresses	

Example issues/ example questions/ tasks being completed

1. List the groups of marine invertebrates of stratigraphic importance in the Mesozoic

2. Give an example of a group of marine invertebrates of rock-forming and palaeoecological importance

Work placement

Not applicable

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