University of Gdańsk

Subject card

Subject name and code	Historical geology and stratigraphy - laboratory classes, PG_00193038						
Field of study	Geology						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2028/2029			
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	3		Language of instruction	Polish			
Semester of study	5		ECTS credits	2.0			
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				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		3.0	17.0	50	
Subject objectives	Ability to apply stratigraphic methods in determining the age of geological objects and processes. Ability to analyse the causes and effects of sedimentary-diastrophic cycles in Poland and Europe.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOLL3_U05] can reconstruct the history of geological development of selected regions in Poland and in the world on the basis of maps, cross-sections and exposures in the field	can reconstruct the history of geological development of selected regions in Poland from the Precambrian to the present day	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them	knows and understands past and present phenomena and processes in the Earth's interior and on its surface, defines methods for investigating the relative and absolute age of geological events	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world	knows the structure and geological development of selected regions in Poland against the background of changes in the configuration of land and seas in the world	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	knows and understands terminology specific to stratigraphy and historical geology	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	has the ability to reason analytically and synthetically leading to correct conclusions on stratigraphy based on results obtained or facts presented	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	knows and identifies palaeontological and structural objects using appropriate macroscopic methods	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion

Subject contents

Geochronological, chronostratigraphic, lithostratigraphic and biostratigraphic units. An overview of the most important fossils in each geological period. Sedimentary rocks as indicators of sedimentary environments. Application of stratigraphic principles and Walther's law. Tectonic deformation as a consequence of diastrophic processes of the lithosphere. The distribution of land and oceans around the world during specific geological periods.Stratigraphy, lithological formation and occurrence of rocks in Poland of individual geological systems.

Prerequisites and co-requisites

Assessment methods and criteria

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

Recommended reading

Basic literature	Orłowski S. Szulczewski M. 1990. Geologia historyczna. Cz. I, Wyd. Geologiczne, Warszawa Mizerski W., Orłowski S. 2005. Geologia historyczna dla geografów, Wyd. Naukowe PWN, Warszawa Racki G., Narkiewicz M., 2006, Polskie Zasady Stratygrafii, PIG, Warszawa. Nawrocki J., Becker A., 2017 - Atlas geologiczny Polski. PIG-PIB, Warszawa.
Supplementary literature	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, Wyd. Naukowe PWN, Warszawa Stanley S. M., 2002. Historia Ziemi, Wyd. 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

Characteristics of the Ordovician (time-span, stratigraphic subdivision, leading fossils, occurrence in Poland)

2. occurrence and characterisation of the Devonian facies in Poland

3 Evolution of the Alpids in Poland

Work placement

Not applicable

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