

Subject card

Subject name and code	Historical geology and stratigraphy - exercises, PG_00091079						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group 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		15.0		15.0	60
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-diastrorphic cycles in Poland and Europe.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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_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_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
	[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
Subject contents	[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
	Geochronological, chronostratigraphic, lithostratigraphic, and biostratigraphic units. Overview of the most important fossils in individual geological periods. Sedimentary rocks as indicators of sedimentary environments. Application of the principles of stratigraphy and Walther's law. Tectonic deformations as a result of diastrophic processes of the lithosphere. The distribution of land and oceans around the world in individual geological periods. Stratigraphy, lithological formation and occurrence of rocks in Poland in 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%
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		
Example issues/ example questions/ tasks being completed	eResources addresses		
	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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