University of Gdańsk

Subject card

Subject name and code	Geology, PG_00050798						
Field of study	Environmental Protection						
Date of commencement of studies	October 2025		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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		1.0		
Learning profile	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Karol Tylmann				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	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		2.0		8.0	25
Subject objectives	Getting sills of macroscopic identification of basic minerals and rocks ccuring in the Earth`s crust, getting knowlege about their classification.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development.	Identifies the level of their knowledge and skills and the need for continuous professional education, updating geological knowledge.	[SK8] observation of student's independent or team work
[OŚL3_U02] Plans, selects appropriate research and measuring equipment and devices, performs physicochemical measurements and experiments; analyses the results and draws conclusions based on them.	Can macroscopically recognize basic types of minerals and rocks with the use of simple instruments, i.e. magnifying glass, stylus, glass plate.	[SU6] demonstration of practical skills
[OŚL3_W01] Discusses the basic concepts of mathematics, physics, chemistry and biology. Describes physical, chemical and biological phenomena occurring in nature as well as geological, geomorphological and climatic conditions of the functioning of nature.	Explains the importance and indispensability of empirical data in the description and interpretation of geological phenomena and processes; explains the course of natural and anthropopressure-induced processes and phenomena occurring in geology.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[OŚL3_U10] Participates in the analyses and evaluation of alternative solutions to environmental problems and selects methods and instruments to rationally resolve them.	Evaluates the functioning of natural and man-altered natural systems and determines the impact of anthropopressure on specific geological processes; assesses the resources and regenerative possibilities of inanimate nature.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[OŚL3_U01] Performs tasks under supervision and independently in the field of analysis of the natural environment and the functioning of natural and man-made natural systems.	Interprets geological processes on the basis of given facts and macroscopically recognized minerals and rocks.	[SU1] oral statement/conversation/ discussion [SU6] demonstration of practical skills

Subject contents

Basic elements of crystalography; structure and properties of minerals; review of the most important rock-forming minerals; mineral composition, structures and textures of magma rocks, classification and review of magma rocks; mineral composition of sedimentary rocks, classification and review of sedimentary rocks; mineral composition and classification of metamorphic rocks.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
In-class activity	51.0%	10.0%
Written colloquium on theory	51.0%	50.0%
A practical colloquium on mineral and rock recognition	51.0%	40.0%

Recommended reading

Basic literature	Jaroszewski W. (red.), 1986. "Guide for the dynamic geology classes". Wyd. Geol. Warszawa. Witak M., Pruszkowska-Caceres M., Szymczak E., 2015, Pronciples og geology, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk.
Supplementary literature	Thompson G.R., Turk J. 1998, "Introduction to physical geology". Saunders College Pub.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	Mohs scale classification of minerals rock-forming minerals classification of rocksGenesis of igneous, sedimentary and metamorphic rocks
Work placement	Not applicable

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