University of Gdańsk

Subject card

Subject name and code	Methods of recognition and documentation of rock resources deposits, PG_00054567						
Field of study	Oceanography						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2024/2025			
Education level	postgraduate 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	1		Language of instruction	Polish			
Semester of study	1		ECTS credits	2.0			
Learning profile	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Patryk Domański				
	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		5.0		15.0	50
Subject objectives	Acquiring skills in macroscopic description of natural aggregate samples and assessment of their suitability, learning methods for searching for and recognizing natural aggregate deposits, learning methods for calculating rock raw material deposits, acquiring skills in determining vertical and horizontal boundaries of a deposit, acquiring skills in designing geological works, familiarizing with the practical use of geological and mining law.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANMU2-W06] knows and identifies potential threats to the marine environment on a local and global scale resulting from strong anthropopressure, predicts their effects on various time and space scales	knows and identifies potential threats to the aquatic environment resulting from strong anthropogenic pressure, knows and understands the impact of human activity on the state of marine ecosystems, knows the benefits of using its resources	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[OCEANMU2-U06] can use specialized computer software and advanced mathematical and statistical methods in data analysis and description of processes and phenomena occurring in the marine environment and coastal zone	is able to use specialist computer software in description of the deposit and analysis of its data	[SU2] presentation/project/paper/ report
[OCEANMU2-W07] knows and understands legal regulations, principles of sustainable development of the marine environment, its protection and management of the marine environment and its resources	knows and understands the basic legal regulations and principles regarding the sustainable development of the marine environment and nature conservation, as well as the management of the marine environment and its resources	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[OCEANMU2-W03] knows and understands research methods used in oceanography and related sciences	knows and understands in-depth the basic and advanced methods used in mining and deposit geology, including methods of searching for and recognizing natural aggregate deposits, calculating the resources of rock raw material deposits	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report

Subject contents

B. Exercises B.1. Basic terms used in mining and deposit geology B.2. Legal basis for recognizing and documenting deposits B.3. Methods of obtaining geological information (drilling, geophysics) B.4. Drilling equipment B.5. Designing a grid of exploratory drillings B.6. Recognition and description of aggregate samples B.7. Introduction to specialist software B.8. Determining the boundaries of a deposit B.9. Methods of calculating the resources of rock raw material deposits B.10. Deposit development project

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	51.0%	50.0%
completion of a final project	51.0%	50.0%

Recommended reading

Basic literature	A.1. Prawo Geologiczno-Górnicze tekst jednolity z dnia 30 stycznia 2015 r. A.2. Rozporządzenie Ministra Środowiska z dnia 1 lipca 2015 r. w sprawie dokumentacji geologicznej złoża kopaliny, z wyłączeniem złoża węglowodorów A.3. Rozporządzenie Ministra Środowiska z dnia 20 grudnia 2011 r., z późniejszymi zmianami, w sprawie szczegółowych wymgań dotyczących projektów robót geologicznych, w tym robót, których wykonywanie wymaga uzyskania koncesji A.4. Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część I Poszukiwanie i rozpoznawanie złóż, planowanie i organizacja prac geologicznych, Ministerstwo Środowiska, Kraków A.5. Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część II Kartowanie geologiczne złóż, Ministerstwo Środowiska, Kraków A.6. Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część III Opróbowanie złóż kopalin, Ministerstwo Środowiska, Kraków A.7. Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część IV Szacowanie zasobów, Ministerstwo Środowiska, Kraków
Supplementary literature	Will be given by the lecturer.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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