University of Gdańsk

Subject card

Subject name and code	Methods of Recognition and Documentation of Rock Resources Deposits - laboratory, PG_00204996		
Field of study	Oceanography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master'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	1	Language of instruction	Polish
Semester of study	1	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr Agnieszka Marcinowska	
	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	2.0	18.0	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-W03] has an in-depth understanding of research methods used in oceanography and related sciences, and interprets their mechanisms and interrelationships across different spatial and temporal scales	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	[SW2] presentation/project/paper/ report
[OCEANMU2-K03] is ready to effectively organize his/her own work, is active and persistent and punctuality in completing tasks, is ready to carrying out evaluation of their own activities	is ready to effectively organize his/ her own work, demonstrates activity and is characterized by perseverance and punctuality in the implementation of tasks, is ready to evaluate his/her own activities in the scope of projects related to the identification and documentation of rock raw material deposits	[SK2] presentation/project/paper/ report
[OCEANMU2-U04] is ready to develop in an analytical and synthetic way research and analysis results and based on them creating conclusions	is able to analytically and synthetically develop research and analysis results on their basis and draw correct conclusions in the field of exploration and documentation of deposits, preparation of geological documentation and a deposit development plan	[SU2] presentation/project/paper/ report
[OCEANMU2-U11] is able to work individually and cooperate in laboratory and field groups, performs various functions in them, including managerial ones, performs various assigned tasks	is able to work individually and cooperate in project groups, performs various functions in them, including management, performs various tasks appropriate to the implemented project in the field of recognition and documentation of rock raw material deposits	[SU2] presentation/project/paper/ report
[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	[SW2] presentation/project/paper/ report

Subject contents

Basic terms used in mining and deposit geology
Legal basis for recognizing and documenting deposits
Methods of obtaining geological information (drilling, geophysics)
Designing a grid of exploratory drillings
Recognition and description of aggregate samples
Determining the boundaries of a deposit
Methods of calculating the resources of rock raw material deposits
Deposit development project

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
completion of a final project	51.0%	100.0%

Recommended reading

Basic literature	Prawo Geologiczno-Górnicze tekst jednolity z dnia 30 stycznia 2015 r. Rozporządzenie Ministra Środowiska z dnia 1 lipca 2015 r. w sprawie dokumentacji geologicznej złoża kopaliny, z wyłączeniem złoża węglowodorów 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 Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część I Poszukiwanie i rozpoznawanie złóż, planowanie i organizacja prac geologicznych, Ministerstwo Środowiska, Kraków Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część II Kartowanie geologiczne złóż, Ministerstwo Środowiska, Kraków Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część III Opróbowanie złóż kopalin, Ministerstwo Środowiska, Kraków Nieć M., 2012. Metodyka dokumentowania złóż kopalin stałych; Część IV Szacowanie zasobów, Ministerstwo Środowiska, Kraków
Supplementary literature	magazine "Górnictwo odkrywkowe"
eResources addresses	

Example issues/ example questions/ tasks being completed	Legal basis for recognizing and documenting deposits
Work placement	Not applicable

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