

**Subject card**

<b>Subject name and code</b>	Methods of Recognition and Documentation of Rock Resources Deposits - laboratory, PG_00204996						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	Master's studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	1	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Agnieszka Marcinowska				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		2.0		18.0	50
<b>Subject objectives</b>	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-Górnictwo 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 kopalni stałych; Część I Poszukiwanie i rozpoznawanie złóż, planowanie i organizacja prac geologicznych, Ministerstwo Środowiska, Kraków Nieć M., 2012. Metodyka dokumentowania złóż kopalni stałych; Część II Kartowanie geologiczne złóż, Ministerstwo Środowiska, Kraków Nieć M., 2012. Metodyka dokumentowania złóż kopalni stałych; Część III Opróbowanie złóż kopalni, Ministerstwo Środowiska, Kraków Nieć M., 2012. Metodyka dokumentowania złóż kopalni 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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