

Subject card

Subject name and code	Research and documentation of mineral resources - lecture, PG_00191402						
Field of study	Geology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Robert Sokołowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		1.0		9.0	25
Subject objectives	The aim of the course is to learn about methods of prospecting and identifying mineral deposits, acquiring skills in mapping and calculating deposit resources, defining deposit boundaries, designing geological works, and learning about the practical application of geological and mining law.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[GEOLL3_K03] is willing to exercise caution and criticism in receiving information from scientific literature, the Internet and other media related to natural sciences	Is prepared to be cautious and critical in accepting information from scientific literature, the Internet and other media relating to the exploration and documentation of mineral deposits			[SK1] oral statement/conversation/discussion		
	[GEOLL3_W07] knows the anthropogenic transformation of the natural environment, including the effects of the exploitation of mineral resources	Knows the anthropogenic transformation of the natural environment as an effect of mineral exploitation			[SW4] test/exam - oral or written		
	[GEOLL3_W06] knows statistical and IT tools as well as the principles of preparing engineering and geological documentation and cartographic materials	Is familiar with statistical and IT tools and the principles of deposit documentation			[SW4] test/exam - oral or written		
	[GEOLL3_U04] is able to use specialized computer software and mathematical and statistical methods in the analysis of geological data	Be able to use specialised computer software and mathematical and statistical methods in the analysis of reservoir data			[SU4] test/exam - oral or written		
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	Can identify mineral deposits and link them to geological processes and anthropogenic environmental transformations			[SU4] test/exam - oral or written		

Subject contents	Subject of research, basic concepts. Legal basis for geological documentation of deposits Staging of deposit exploration Geological mapping of deposits Testing of deposits Resource estimation Geological documentation as a basis for deposit management		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written exam	51.0%	100.0%
Recommended reading	Basic literature	1. Gałkiewicz T., 1976 Poszukiwanie i rozpoznawanie złóż kopalni stałych. Wyd. Geol., Warszawa 2. Nieć M., 1990 Geologia kopalniana. Wyd. Geol., Warszawa 3. Nieć M., 2011 Problemy geologicznego dokumentowania złóż kopalni stałych. Wyd. IGSMiE PAN, Kraków 4. Prawo Geologiczno-Górnictwa tekst jednolity z dnia 30 stycznia 2015 r.. 5. Rozporządzenie Ministra Środowiska z dnia 20 grudnia 2011 r. w sprawie szczegółowych wymagań dotyczących projektów robót geologicznych, w tym robót, których wykonywanie wymaga uzyskania koncesji. 6. Zasady dokumentowania złóż kopalni stałych., 2002. Ministerstwo Środowiska, Departament Geologii i Koncesji Geologicznych, Warszawa. 7. Rozporządzenie Ministra Środowiska z dnia 1 lipca 2015 r. w sprawie dokumentacji geologicznej złoża kopaliny, z wyłączeniem złoża węglowodorów 8. Rozporządzenie Ministra Środowiska z dnia 20 grudnia 2011 r., z późniejszymi zmianami, w sprawie szczegółowych wymagań dotyczących projektów robót geologicznych, w tym robót, których wykonywanie wymaga uzyskania koncesji	
	Supplementary literature	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	
	eResources addresses		
Example issues/ example questions/ tasks being completed	List the steps in prospecting and documenting a deposit What should a geological works project specify?		
Work placement	Not applicable		

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