

Subject card

Subject name and code	Research and documentation of mineral resources - exercises, PG_00091130						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's 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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
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	0.0	0.0	15.0	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		11.0		25.0	51
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_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		[SW5] implementation of a problem task		
	[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		[SW5] implementation of a problem task		
	[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		[SU5] implementation of a problem task		
	[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		[SU5] implementation of a problem task		
	[GEOLL3_K01] is willing to plan and implement, individually or as a team, the next stages of the entrusted task, take responsibility for its results, effectively cooperate in the team by performing various roles in it		Is able to plan the successive stages of exploration and documentation of mineral deposits individually or in teams, to work effectively in research teams in various functions and to take responsibility for the completion of assigned tasks.		[SK5] implementation of a problem task [SK8] observation of student's independent or team work		

Subject contents	Basic terms used in mining and deposit geology Legal basis for deposit exploration and documentation Methods of acquiring geological information (drilling, geophysics) Drilling equipment Reconnaissance drilling grid design Reconnaissance and description of aggregate samples Introduction to specialised software Identification of deposit boundaries Methods for calculating the reserves of rock deposits Deposit development project		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Course work for assessment	66.0%	100.0%
Recommended reading	Basic literature	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	Gałkiewicz T., 1976 Poszukiwanie i rozpoznawanie złóż kopalin stałych. Wyd. Geol., Warszawa Nieć M., 1990 Geologia kopalniana. Wyd. Geol., Warszawa Nieć M., 2011 Problemy geologicznego dokumentowania złóż kopalin stałych. Wyd. IGSMiE PAN, Kraków Prawo Geologiczno-Górnictwa tekst jednolity z dnia 30 stycznia 2015 r.. 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. Zasady dokumentowania złóż kopalin stałych., 2002.Ministerstwo Środowiska, Departament Geologii i Koncesji Geologicznych, Warszawa. 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 wymagań dotyczących projektów robót geologicznych, w tym robót, których wykonywanie wymaga uzyskania koncesji	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Natural aggregates deposit exploration project Resulting documentation of a natural aggregates deposit		
Work placement	Not applicable		

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