

Subject card

Subject name and code	Introduction to cartography - exercises, PG_00091107						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Włodzimierz Narloch				
	Teachers		dr Włodzimierz Narloch				
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		5.0		15.0	35
Subject objectives	Learning the methodology of preparing maps, profiles, geological cross-sections and other cartographic studies						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		the student knows and understands the terminology appropriate to geological cartography		[SW1] oral statement/ conversation/discussion		
	[GEOLL3_K03] is willing to exercise caution and criticism in receiving information from scientific literature, the Internet and other media related to natural sciences		the student is prepared to be cautious and critical of information from a variety of sources on geological cartography		[SK1] oral statement/conversation/ discussion		
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations		the student is able to identify surficial and deep geological units and link them to geological processes and anthropogenic transformations of the environment		[SU5] implementation of a problem task		
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods		the student knows and identifies structural objects using appropriate methods appropriate for geological mapping		[SW5] implementation of a problem task		
Subject contents	Geological layer, course and fall of a rock layer, bedrock, floor, thickness of a layer, outcrop of a rock layer. Structural horizon, intersection line, intersection modulus. Geological profile, geological cross-section, actual and apparent collapse. Representation of geological structures on geological maps and cross-sections. Borehole documentation.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Passing of all assigned coursework for a grade. Award of a final mark based on the average of the partial marks.	66.0%	100.0%
Recommended reading	Basic literature	Alexandrowicz S., 1959. Atlas do ćwiczeń z kartografii geologicznej, Wyd. Geologiczne, Warszawa Compton R. R., 1985. Geology in the field, John Wiley & Sons, New York Kozia J., 1980. Kompas geologiczny. Technika i analiza pomiarów, Uniwersytet Wrocławski, Wrocław Labus M., Labus K., 2008. Podstawy geologii strukturalnej i kartografii geologicznej, Wyd. Politechniki Śląskiej, Gliwice Słowański W., Kotański Z., Hakenberg M., Królikowski C., Szczypa S., 1989. Kartografia geologiczna, Wyd. Geologiczne, Warszawa Instrukcja opracowania i wydania Szczegółowej mapy geologicznej Polski w skali 1: 50 000. 1996. PIG, Warszawa	
	Supplementary literature	Ciołkosz A., Miszański J., Olędzki J. R., 1978. Interpretacja zdjęć lotniczych, Wyd. Naukowe PWN, Warszawa Floyd F., Sabins, J.R., 1987. Remote Sensing, Principles and Interpretation, W. H. Freeman and Company, New York Kotański Z., 1987. Geologiczna kartografia wgłębna, Wyd. Geologiczne, Warszawa Nieć M., 1990. Geologia kopalniana, Wyd. Geologiczne, Warszawa Roberts J.L., 1982. Introduction to geological maps and structures, Pergamon press., Oxford Ozimek W., Rubinkiewicz J., Mastella L., 2007. Instrukcja Kursu Kartowania Geologicznego, Uniwersytet Warszawski Zydorowicz T., 1991. Interpretacja map geologicznych, Warszawa USTAWA z dnia 9 czerwca 2011r. Prawo geologiczne i górnicze	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Planissection and intersection of a rock layer with specified parameters		
Work placement	Not applicable		

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