

Subject card

Subject name and code	Geological cartography - exercises, PG_00091113						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		3.0		
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 Sokółowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	0.0	0.0	45
	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	45		10.0		20.0	75
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_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods		knows and identifies geological objects using appropriate methods of geological mapping		[SW5] implementation of a problem task		
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations		is able to map geological objects and link them to geological processes and anthropogenic transformations of the environment		[SU5] implementation of a problem task		
	[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 exercise caution and criticism in accepting information from the scientific literature, the Internet and other media relating to geological cartography		[SK1] oral statement/conversation/discussion		
	[GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues		is able to use source information, in Polish and English, including archival and electronic databases, in the field of geological cartography		[SU5] 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
	Pass mark for all cartographic works. Assignment of a final mark based on the average of the marks received for the individual works.	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, GliwiceSłowański W., Kotański Z., Hakenberg M., Królikowski C., Szczypa S., 1989. Kartografia geologiczna, Wyd. Geologiczne, WarszawaInstrukcja opracowania i wydania Szczegółowej mapy geologicznej Polski w skali 1: 50 000. 1996. PIG, Warszawa	
	Supplementary literature	Ciołkosz A., Miszański J., Ołędzki 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 Ożimkowski 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	Analysis of an area of plate geological structure by making a geological cross-section, drilling profile in the aforementioned point, synthetic profile and description of geological structure Analysis of the geological structure including calculation of the outcrop area of the deposit layer, its volume and reserves of the selected type of mineral resource	
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.