

Subject card

Subject name and code	Geological cartography - exercises, PG_00091113						
Field of study	Geology						
Date of commencement of studies	October 2024	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	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 Włodzimierz Narloch				
	Teachers		dr Włodzimierz Narloch				
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_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			
	[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_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_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			
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%
Recommended reading	Basic literature	<p>Alexandrowicz S., 1959. Atlas do ćwiczeń z kartografii geologicznej, Wyd. Geologiczne, Warszawa</p> <p>Compton R. R., 1985. Geology in the field, John Wiley & Sons, New York</p> <p>Koziar J., 1980. Kompas geologiczny. Technika i analiza pomiarów, Uniwersytet Wrocławski, Wrocław</p> <p>Labus M., Labus K., 2008. Podstawy geologii strukturalnej i kartografii geologicznej, Wyd. Politechniki Śląskiej, Gliwice</p> <p>Słowański W., Kotański Z., Hakenberg M., Królikowski C., Szczypa S., 1989. Kartografia geologiczna, Wyd. Geologiczne, Warszawa</p> <p>Instrukcja opracowania i wydania Szczegółowej mapy geologicznej Polski w skali 1: 50 000. 1996. PIG, Warszawa</p>	
	Supplementary literature	<p>Ciołkosz A., Miszański J., Olędzki J. R., 1978. Interpretacja zdjęć lotniczych, Wyd. Naukowe PWN, Warszawa</p> <p>Floyd F., Sabins, J.R., 1987. Remote Sensing, Principles and Interpretation, W. H. Freeman and Company, New York</p> <p>Kotański Z., 1987. Geologiczna kartografia wgłębna, Wyd. Geologiczne, Warszawa</p> <p>Nieć M., 1990. Geologia kopalniana, Wyd. Geologiczne, Warszawa</p> <p>Roberts J.L., 1982. Introduction to geological maps and structures, Pergamon press., Oxford</p> <p>Ozimek W., Rubinkiewicz J., Mastella L., 2007. Instrukcja Kursu Kartowania Geologicznego, Uniwersytet Warszawski</p> <p>Zydorowicz T., 1991. Interpretacja map geologicznych, Warszawa</p> <p>USTAWA z dnia 9 czerwca 2011r. Prawo geologiczne i górnicze</p>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<p>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</p> <p>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</p>		
Work placement	Not applicable		

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