

Subject card

Subject name and code	Tectonics - laboratory classes, PG_00193077						
Field of study	Geology						
Date of commencement of studies	October 2026	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	2	Language of instruction				Polish	
Semester of study	3	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 Agnieszka Kubowicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		3.0		17.0	50
Subject objectives	To acquire the ability to recognize tectonic structures, their spatial relationships and sequence in rocks, to present structures in a stereographic projection.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	has the ability to reason analytically and synthetically leading to correct inference and interpretation of tectonic structures, based on the results obtained or facts presented			[SU4] test/exam - oral or written [SU5] implementation of a problem task		
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	knows and identifies structural objects, using appropriate methods			[SW4] test/exam - oral or written [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 identify tectonic objects and combine them with geological processes and anthropogenic environmental transformations			[SU4] test/exam - oral or written [SU5] implementation of a problem task		
	[GEOLL3_U05] can reconstruct the history of geological development of selected regions in Poland and in the world on the basis of maps, cross-sections and exposures in the field	can reconstruct the tectonic evolution of selected regions in Poland and around the world on the basis of maps, cross sections and tectonic structures			[SU4] test/exam - oral or written [SU5] implementation of a problem task		

Subject contents	Recognizing, characterizing and interpreting tectonic structures (determining the position of layers in space, graphical representation of the results of layer position measurements). Operations on stereographic nets. Statistical elaboration of tectonic measurements (contour diagrams).		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	short tests (written)	51.0%	90.0%
	writing assignment (problem-based task)	51.0%	10.0%
Recommended reading	Basic literature	Kuzak R., Żaba J., 2011. Podstawy geologii strukturalnej, Wyd. Naukowe PWN, Warszawa Jaroszewski W., 1974. Tektonika uskoków i fałdów, Wyd. Geologiczne, Warszawa	
	Supplementary literature	Jaroszewski W., 1974, Tektonika uskoków i fałdów, Wyd. Geologiczne, Warszawa	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Stereographic nets task: Give the value of the angle between the lines and the notation of the common plane S in which this angle lies. Data: line P1: 150/40 and line P2 250/60 Task: based on a set of measurements of the orientation of geological structures, make a contour diagram.		
Work placement	Not applicable		

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