University of Gdańsk

Subject card

Subject name and code	Tectonics - exercises, PG_00091151		
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	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	dr Agnieszka Kubowicz	

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

Additional information:

Solving tasks, analysis of tectonic structures

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	12.0	15.0	57

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_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
[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

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
writing assignment	51.0%	10.0%
short tests	51.0%	90.0%

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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