

Subject card

Subject name and code	Tectonics - lecture, PG_00191282						
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				exam	
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	30.0	0.0	0.0	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		1.0		19.0	50
Subject objectives	Recognizing the tectonic structures. Understanding the mechanisms and conditions of the formation of these structures, taking into account the different physical and mechanical properties of rocks.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	knows and understands the terminology appropriate in the geological sciences, with particular emphasis on tectonics	[SW4] test/exam - oral or written
	[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 connect them to geological processes and anthropogenic environmental transformations	[SU4] test/exam - oral or written
	[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them	knows and understands the phenomena and tectonic processes, occurring in the past and nowadays in the interior of the Earth and on its surface, defines the methods of their study	[SW4] test/exam - oral or written
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes	knows and understands basic tectonic phenomena and explains how they relate to geological processes	[SW4] test/exam - oral or written
	[GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world	knows the tectonic evolution of selected regions in Poland and around the world	[SW4] test/exam - oral or written
[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	
Subject contents	<p>Basic definitions related to tectonics. Rock mechanics, factors causing internal and external deformation. The main elements and objectives of structural analysis. Tectonic structures - folds, faults, fractures. Evolution of tectonic structures in sedimentary and crystalline rocks. Elements of petrotectonics. Salt tectonics. Glacitectonics. Theory of plate tectonics of the lithosphere.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final exam	51.0%	100.0%
Recommended reading	Basic literature	<p>Dadlez R., Jaroszewski W., 1994. tectonics, Wyd. Geologiczne, Warszawa</p> <p>Kuzak R., Żaba J., 2011. Fundamentals of structural geology, Wyd. Naukowe PWN, Warsaw.</p> <p>Jaroszewski W., 1974. Tectonics of faults and folds, Wyd. Geologiczne, Warsaw.</p> <p>Jaroszewski W., 1986. Guide to exercises in dynamic geology, Wyd. Geologiczne, Warsaw.</p>	

	Supplementary literature	<p>Jaroszewski W. (ed.), 1985. Dictionary of dynamic geology, Wyd. Geologiczne, Warsaw, Poland.</p> <p>Frisch W., Meschede M., Blakey R., 2011 Plate tectonics. Continental drift and mountain building, Springer</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>List the external and internal factors of tectonic deformation</p> <p>Characterize the mechanisms of folding</p>	
Work placement	Not applicable	

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