

Subject card

Subject name and code	Dynamic geology - lecture, PG_00191243						
Field of study	Geology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		4.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Laboratory of Marine Geology -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Małgorzata Witak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	45.0	0.0	0.0	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	1.0		54.0		100
Subject objectives	Understand the mechanisms, causes and effects of the main geological processes occurring in the deep and on the surface of the Earth's crust.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes		knows and understands basic natural phenomena and explains the relationship between endogenous and exogenous processes		[SW4] test/exam - oral or written		
	[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		have the ability to reason correctly in terms of geological endo- and exogenous processes		[SU4] test/exam - oral or written		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		knows and understands terminology specific to dynamic geology		[SW4] test/exam - oral or written		
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods		knows mineralogical, petrographic and structural objects		[SW4] 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 endogenous and exogenous processes currently taking place		[SW4] test/exam - oral or written		

Subject contents	Scope of dynamic geology and its relation to other natural science disciplines. Structure of the Earth's interior as a result of its evolution. Vertical and horizontal differentiation of the Earth's crust. Chart/time scale. Tectonics of the lithosphere plates and its relation to magmatism, diastrophism and metamorphism. Basic tectonic deformations. Weathering processes. Characteristics of eolian, glacial, fluvio-glacial, fluvial and limnic processes. The sculpting activity of the sea.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	oral or written test/examination	51.0%	100.0%
Recommended reading	Basic literature	<p>Mizerski W., 2010. Geologia dynamiczna, Wyd. Naukowe PWN, Warszawa</p> <p>Książkiewicz M., 1979. Geologia dynamiczna, Wyd. Geologiczne, Warszawa</p> <p>Witak M., Pruszkowska-Caceres M., Szymczak E., 2015. Podstawy geologii, Wyd. Uniwersytetu Gdańskiego, Gdańsk</p>	
	Supplementary literature	<p>Jaroszewski W. (red.), 1986. Przewodnik do ćwiczeń z geologii dynamicznej, Wyd. Geologiczne, Warszawa</p> <p>Allen P.A., 2000. Procesy kształtujące powierzchnię Ziemi, Wyd. Naukowe PWN, Warszawa</p> <p>Jaroszewski W. (red.), 1985. Słownik geologii dynamicznej, Wyd. Geologiczne, Warszawa</p> <p>Skoczylas J., 1996. Budowa Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wyd. Kurpisz, Poznań</p> <p>Witt. A., Borówka K.R., 1997. Rzeźba powierzchni Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wyd. Kurpisz, Poznań</p>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<p>1 Describe the main types of seismic waves produced during earthquakes</p> <p>2. List 5 rocks in which quartz occurs</p> <p>3 Explain the effects of deflation</p>		
Work placement	Not applicable		

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