

## Subject card

Subject name and code	Basics of Earth Science, PG, 00058086								
Field of study	Basics of Earth Science, PG_00058986								
•		Environmental Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/	2022/2023		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Part-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	general academic profile		Assessment form			exam			
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Enginee					Engineering			
Name and surname	Subject supervisor	dr hab. Małgorzata Pruszkowska-Caceres							
of lecturer (lecturers)	Teachers		dr hab. Małgorzata Pruszkowska-Caceres						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	atory Project		Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30	3.0			68.0		101	
Subject objectives	Student gets acquainted with internal and external geological processes, their influence on abiotic environment of men; ability to interpret geological maps and cross-sections.								
Learning outcomes	Course outcome Subject outcome Method of verification								
	[K6_U04] can recognize basic rocks and minerals, can create and read maps and geological and hydrogeological sections; can read and interpret geological documentation		common rock forming minerals			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	K6_W12		explains natural geological threats; interprets the influence of			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Lecture: geological time, the Earths origin, the Earths layers, basis of stratigraphy; internal processes (volcanism, plutonism, metamorphism); plate tectonic theory; basis of tectonics; isostasy; the rock cycle; external processes (weathering, erosion, mass wasting); glacial, stream, marine, eolian processes.  Tutorials: minerals (definition, physical properties, origin, identification of basic minerals), igneous, sedimentary, metamorphic rocks (origin, mineral composition, textures, classification, identification); geological maps analysis, geological cross-section drawing								
Prerequisites and co-requisites	geography, chemistry level of secondary school								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	written exam		60.0%	<u> </u>		50.0%			
	colloquiums		60.0%		30.0%				
	practical exercises		100.0%			20.0%			

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Recommended reading	Basic literature	1.Mizerski W: Geologia dynamiczna. Wyd. Naukowe PWN,Warszawa 2006 (2004)					
		2. Książkiewicz M: Geologia dynamiczna. Wyd. Geologiczne, Warszawa 1979					
		3. Jaroszewski W: Przewodnik do ćwiczeń z geologii dynamicznej. Wyd. Geologiczne, Warszawa 1986					
		4. Czubla P, Mizerski W,Świerczewska-Gładysz E: Przewodnik do ćwiczeń z geologii. Wyd. Naukowe PWN, W-wa 2004					
	Supplementary literature	1. Jaroszewski W,Marks L, Radomski A: Słownik geologii dynamicznej. Wyd. Geologiczne, Warszawa 1985					
		2. Roniewicz P: Przewodnik do ćwiczeń z geologii dynamicznej. Polska Agencja Ekolog., Warszawa 1999					
		3. Thompson &Turk: Modern Physical Geology Saunders College Publishing, 1996					
	eResources addresses	Adresy na platformie eNauczanie:					
		Geologia - Podstawy nauk o ziemi 2022/2023 B+IS niestacjonarne - Moodle ID: 23182 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23182					
Example issues/ example questions/ tasks being completed	Indicate geological events occuring	at divergent plate boundaries					
tasks being completed	What are the main rock forming minerals of gabbro; indicate the stage of magma crystallization for this rock.						
	Describe conditions of granite forming  What is the subduction zone?  What are the main processes responsible for the Earth relief?						
Work placement	Not applicable						

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