

Subject card

Subject name and code	Geology, PG_00059254									
Field of study	Civil Engineering									
Date of commencement of										
studies	Ociober 2024		Academic year of realisation of subject			2024/2025				
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			assessment				
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering						ngineering			
Name and surname	Subject supervisor dr hab. Małgorzata Pruszkowska-Caceres									
of lecturer (lecturers)	Teachers									
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 in consultation hours		Self-study		SUM		
	Number of study hours	30		5.0		65.0		100		
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_W01] Demonstrate knowledge and understanding of mathematics as well as sciences and engineering disciplines underlying civil engineering at a level necessary to achieve the other programme outcomes.		General understanding of issues specified in the Geology learning program (Bases of the Earth Science), Quaternary Geology and Geomorphology in particular. Student gets acquainted with internal and external geological processes, their influence on abiotic environment of men; ability to interpret geological maps and cross-sections.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects				
	[K6_U01] Apply knowledge and understanding of mathematics as well as sciences and engineering disciplines underlying civil engineering to solve engineering problems and issues.		engineering documentations principles; student knows how to			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task				
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 intersection, geological maps analysis, geological cross-section drawing									
Prerequisites and co-requisites	geography, chemistry level of secondary school									

Data wydruku: 18.07.2024 08:46 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	practical exercises	60.0%	50.0%				
	colloquiums	60.0%	50.0%				
Recommended reading	Basic literature	1.Mizerski W: Geologia dynamiczna. Wyd. Naukowe PWN,Warszawa 2006 (2004)					
		2. Książkiewicz M: Geologia dynamiczna. Wyd. Geologiczne, Warszawa 1979					
		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					
		 Roniewicz P: Przewodnik do ćwiczeń z geologii dynamicznej. Polska Agencja Ekolog., Warszawa 1999 					
		cal Geology Saunders College					
	eResources addresses	Adresy na platformie eNauczanie:					
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 respon	the main processes responsible for the Earth relief?					
Work placement	Not applicable						

Data wydruku: 18.07.2024 08:46 Strona 2 z 2