

Subject card

Subject name and code	Geology and hydrogeology, PG_00042265							
Field of study	Civil Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group			Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	2		Language of instruction			English		
Semester of study	3		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering							ronmental
Name and surname	Subject supervisor	dr inż. Maria Przewłócka, doc. PG						
of lecturer (lecturers)	Teachers		<u> </u>					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0 15.0 0.0		0.0	0.0		30
	E-learning hours included: 0.0					OLINA		
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		15.0		50
	and hydrogeological conditions. Recognition and description of minerals, recognition and description of rocks, technical properties of rocks, identification of applied rocks; description of indicated rocks used for building purposes Water cycle, recognition of types of aquifers, its characteristics, analysis of geological and hydrogeological data, determination of the conductivity. Principles of groundwater flow, flow to wells. Dewatering of excavation and human impact on the environment							s used for ogeological
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K7_U14] is able to plan and to interpret the geotechnical investigations, to analyse the foundation stability; can design direct and deep foundations in complex soil conditions for complicated statical and dynamical loads		Student can plan and make interpretation of hydrogeological measurement			[SU1] Assessment of task fulfilment		
	[K7_W14] knows and applies building codes and obeys the Construction Law; has knowledge on environmetal impact of investment realisation		Student has knowledge about influence of civil engineering on the environment			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Work wth geological and hydrogeological maps; description of chosen region regarding: superficial deposits and hydrogeological conditions. Recognition and description of minerals, recognition and description of rocks, technical properties of rocks, identification of applied rocks; description of indicated rocks used for building purposes Water cycle, recognition of types of aquifers, its characteristics, analysis of geological and hydrogeological data, determination of the conductivity. Principles of groundwater flow, flow to wells. Dewatering of excavation and human impact on the environment.							
Prerequisites and co-requisites	knowledge of soil mechanic							

Data wydruku: 18.05.2024 21:44 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	reports from geology	60.0%	34.0%		
	test from hydrogeology	60.0%	33.0%		
	reports from hydrogeology	60.0%	33.0%		
Recommended reading	Basic literature	Domenico, Schwartz: Physical nad Chemical Hydrogeology 2. Schwartz, Zhang: Fundamentals od Ground Water 3. Fetter C.W.: Applied Hydrogeology 4. Żyłka R.: Geological Dictionary			
	Supplementary literature	Finkl C.W: The Encyclopedia of Applied Geology 2. Bell F.G.: Environmental Geology Principles and Practise .			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	types of aquifer, how to determine conductivity, ground water flow conection with surface water				
Work placement	Not applicable				

Data wydruku: 18.05.2024 21:44 Strona 2 z 2