

Subject card

Subject name and code	Geology and hydrogeology, PG_00042265								
Field of study	Civil Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
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 Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering							ingineering	
Name and surname	Subject supervisor dr inż. Marzena Wójcik								
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	type Lecture Tutorial		Laboratory Project		t	Seminar	SUM	
	Number of study hours	15.0	0.0 15.0 0.0		0.0		0.0	30	
	E-learning hours inclu			<u> </u>				1	
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		5.0		15.0		50	
	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								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
2007 mig Odioonico	[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				
	[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 make interpretation of hydrogeological measurement		[SU1] Assessment of task fulfilment				
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								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	reports from hydrogeology	60.0%	66.0%		
	reports from geology	60.0%	34.0%		
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				

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