

Subject card

Subject name and code	, PG_00061720								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Optional subject group			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering					Engineering			
Name and surname	Subject supervisor		dr inż. Angelika Duszyńska						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	20.0	0.0	0.0	10.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Self-study SUM		SUM		
	Number of study hours	30		3.0		43.0		76	
Subject objectives	To familiarize students with technical solutions used in geoengineering.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_U03		student is able to design elements of structures protecting slopes			[SU4] Assessment of ability to use methods and tools			
	K7_W05		student has knowledge about the influence of engineering activities on environment			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U06		student is able to use the acquired methods of land reclamation and mathematical models to solve problems in environmental geoengineering			[SU4] Assessment of ability to use methods and tools			
Subject contents	contaminant transport in soils, soil improvement, protection of slopes, geotechnical design, Earth's natural resources, environmental Impact								
Prerequisites and co-requisites	completed courses on geotechnical engineering or similar courses								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	evaluation of projects		60.0%			100.0%			
			0.0%			0.0%			

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Recommended reading	Basic literature	Zadroga B., Olańczuk-Neyman K., Ochrona i rekultywacja podłoża gruntowego, Wydawnictwo Politechniki Gdańskiej, 2001				
		Malina G., Likwidacja zagrożenia środowiska gruntowo-wodnego na terenach zanieczyszczonych, Wydawnictwo Politechniki Częstochowskiej, 2007				
		PN-EN 1997 Eurokod 7: Projektowanie geotechniczne				
		Pisarczyk S.: Geoinżynieria. Metody modyfikacji podłoża gruntowego, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2014.				
		Stryczek S.: Podstawy geoinżynierii. Wydawnictwo AGH. Kraków 2021 qUrbański (red.): Podstawy projektowania geotechnicznego. Wprowadzenie do nowych technologii w geotechnice, Wydawnictwo Politechniki Krakowskiej, 2016				
	Supplementary literature	nie dotyczy				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	stability of slopes, impact of changes in the groundwater level on the environment, spread of pollutants, soil improvement					
Work placement	Not applicable					

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