

Subject card

Subject name and code	, PG_00059945								
Field of study	Environmental Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2022/2023			
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	1		Language of instruction			Polish			
Semester of study	1		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 Engine						Engineering		
Name and surname	Subject supervisor prof. dr hab. inż. Adam Szymkiewicz								
of lecturer (lecturers)	Teachers		dr inż. Angelika Duszyńska						
			dr inż. Marzena Wójcik						
			prof. dr hab. inż. Adam Szymkiewicz						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	15.0	0.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM	
	Number of study 45 hours			5.0		30.0		80	
Subject objectives	To familiarize students with technical solutions used to protect the soil environment								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_U06		student is able to use mathematical models describing contaminant migration in soils			[SU4] Assessment of ability to use methods and tools			
	K7_W05		student has knowledge about the influence of engineering activities on soil environment			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U03		student is able to design elements of structures protecting slopes and landfills			[SU4] Assessment of ability to use methods and tools			
Subject contents	modeling contaminant transport in soils, soil improvement, protection of slopes, protection of landfills								
Prerequisites and co-requisites	completed courses on geotechnical engineering and hydrogeology or similar courses								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	evaluation of projects	evaluation of projects		50.0%		100.0%			
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						
	Supplementary literature		nie dotyczy						
	eResources addresses Adresy na platformie eNauczanie:								
Example issues/ example questions/ tasks being completed	computation of contaminant transport in soils, design of slope recultivation								

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Work placement	Not applicable

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