

Subject card

Cubicat name and cade	, PG_00059945							
Subject name and code	_							
Field of study	Environmental Engineering							
Date of commencement of studies	February 2025		Academic year of realisation of subject			2024/2025		
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	dr inż. Angelika Duszyńska						
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct Seminar		SUM
	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				Self-study SUM			
	Number of study hours	45		5.0		30.0		80
Subject objectives	To familiarize students with technical solutions used in geoengineering.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	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		
	K7_W05		student has knowledge about the influence of engineering activities on environment			[SW3] Assessment of knowledge contained in written work and projects		
	K7_U03		student is able to design elements of structures protecting slopes			[SU4] Assessment of ability to use methods and tools		
Subject contents	modeling 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 and hydrogeology or similar courses							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	evaluation of projects		60.0%			60.0%		
	evaluation of presentation		60.0%			40.0%		
		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	design of slope reclamation with rein	nforced soil				
Work placement	Not applicable					

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