

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Landfills, PG_00041421							
Field of study	Civil Engineering							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group			Optional subject group		
Mode of study			Mode of delivery		at the university			
Year of study	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			3.0		
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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 of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Lech Bałachowski						
	Teachers	1	Testevial	l h t	Desis		0 - min - m	
Lesson types and methods	Lesson type	Lecture 0.0	Tutorial 0.0	Laboratory Project		t	Seminar	SUM 30
of instruction	Number of study hours		0.0	0.0	0.0 30.0		30	
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
Subject objectives	Discussion of problems related with wastes management and design, exploitation, closure and recultivation of landfills							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		Student is able to calculate the waste settlements in landfills.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_W14] knows and applies building codes and obeys the Construction Law; has knowledge on environmetal impact of investment realisation		Student knows the law concerning the waste management and landfilling.			[SW1] Assessment of factual knowledge		
	[K7_W12] has deep and theoreticaly firm knowledge about geotechnical investigation, the rules of geotechnical design and engineering geology; knows the complcated processes in soil, techniques of foundations, draining systems, soil strengthening, geosynthetics applications, underground constructions and earthworks		Student is able to design impermeable barriers in landfills.			[SW1] Assessment of factual knowledge		
	[K7_K02] Rocognizes the significance of knowledge in solving cognitive and practical problems; reliably evaluates results of his own and team research		Student knows the requirements concerning the localization and monitoring of landfills.			[SK1] Assessment of group work skills		
Subject contents	Circular economy. Waste types. By-products and their use. Parameters of wastes. Localization of landfills, impermeable barriers, landfills closure and monitoring. Recultivation of landfills, use of biogaz. Wastes compaction.							
Prerequisites and co-requisites	Knowledge of soil me	chanics, soil in	nprovement, ge	eoengineering	and hyd	raulics		
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Active participation		80.0%		40.0%			
	Presenting		70.0%		60.0%			
Recommended reading	Basic literature http://www.smocs.eu							
Data wygenerowania: 28 10 2024								

	Supplementary literature	Environmental geotechnology DredgDikes guidelines Smocs guidelines			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Drainage system on landfills				
	Impermeable barriers in landfills				
	Compaction of municipal wastes				
	Management and use of by-products				
Work placement	Not applicable				

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