

## Subject card

Subject name and code	, PG_00059982								
Field of study	Environmental Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		dr hab. inż. Katarzyna Kołecka						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	rning activity Participation in classes includ plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	30		5.0		20.0		55	
Subject objectives	The aim of the course is to familiarize students and to deepen their knowledge of the processing and management of waste and sewage sludge using biotechnology.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
			The student understands the need for formulating and communicating information and opinions to society regarding environmental engineering achievements, is aware of the importance, and understands the non-technical aspects and consequences of engineering activities. They make efforts to convey such information and opinions in a universally understandable manner, presenting various perspectives			[SK5] Assessment of ability to solve problems that arise in practice			
	K7_U10		The student is capable of designing an advanced technological scheme for the utilization of sewage sludge and waste management.  The student has in-depth,			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SW3] Assessment of knowledge			
			organized, and theoretically grounded knowledge regarding the sewage sludge treatemnt and waste management.			contained in written work and projects			
	K7_U12		The student can analyze and evaluate, from both technical and economic perspectives, solutions and the operation of facilities for sewage sludge utilization and waste management			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			

Data wygenerowania: 22.11.2024 01:24 Strona 1 z 2

Subject contents	The issue of sewage sludge and waste in Poland, legal issues related to the processing and management of sewage sludge and waste, and the fundamental processes utilized in sludge and waste biotechnology, primarily encompassing aerobic stabilization, anaerobic stabilization, and composting, as well as processes preparing sludge and waste for biotechnological procedures.					
Prerequisites and co-requisites	Knowledge of wastewater treatment processes used in WWTPs as well as waste management.					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Solution of the task as part of the project	50.0%	50.0%			
	Test from the lecture	50.0%	50.0%			
Recommended reading	Basic literature -					
	Supplementary literature	-				
	eResources addresses Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	-					
Work placement	Not applicable					

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Data wygenerowania: 22.11.2024 01:24 Strona 2 z 2