

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00059939							
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			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	1		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Enviro	Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Eliza Kulbat						
	Teachers	Teachers dr hab. inż. Eliza Kulbat						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	0.0		0.0	30
	E-learning hours inclu							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation i consultation h			tudy	SUM
	Number of study hours	30	5.0			19.0 54		
Subject objectives	The purpose of the course is to familiarize students with modern technologies used in environmental protection.							mental
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions		The student is able to acquire information from literature, databases and other sources; is able to integrate obtained information, interpret and critically evaluate it, as well as draw conclusions and formulate and fully justify opinions			[SU5] Assessment of ability to present the results of task		
	K7_W07		The student has in-depth,			[SW1] Assessment of factual knowledge		
			The student is able to plan and carry out an experiment or a laboratory, field or computer simulation study, leading to the evaluation of the effectiveness of applied solutions in environmental engineering.			[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
	K7_W03		The student has in-depth, structured and theoretically underpinned knowledge in related to measurement, management, monitoring of the environment.			[SW1] Assessment of factual knowledge		
Subject contents	Modern technologies reducing emissions o Environmental protec	f pollutants into	the air and wa	ition and impro iter environme	vement nt. Prob	of degi lems of	raded land,. N f micropollutio	lethods of n.

Prerequisites and co-requisites	Basic information from the subjects: environmental protection, water and wastewater technology, waste and sludge management.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	test	60.0%	50.0%				
	presentation	60.0%	50.0%				
Recommended reading	Basic literature	Naumczyk J., Chemistry of the environment, PWN, Warsaw 2022 Scientific articles in journals related to the subject matter.					
	Supplementary literature Duffy S.J., Chemistry of the Environment, PWN, Warsaw, 2008						
	eResources addresses Adresy na platformie eNauczanie: Technologie w ochronie środowiska - wykłady - 22/23 - Moodle 26298 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=2629						
Example issues/ example questions/ tasks being completed	Air emissions from coal-based power generation. Degradation of industrial sites. Land reclamation projects after the end of the exploitation of the Belchatow KWB.						
Work placement	Not applicable						