

## Subject card

Subject name and code	, PG_00059939							
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			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 Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering							ngineering
Name and surname of lecturer (lecturers)	Subject supervisor Teachers							
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	0.0		0.0	30
	E-learning hours inclu	ided: 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 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.							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K7_U01] can obtain information from literature, databases and 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		
			The student has in-depth,			[SW1] Assessment of factual knowledge		
	K7_U07		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 of soil conservation. Reclamation and improvement of degraded land,. Methods of reducing emissions of pollutants into the air and water environment. Problems of micropollution. Environmental protection in the power industry.							
Prerequisites and co-requisites	Basic information from the subjects: environmental protection, water and wastewater technology, waste and sludge management.							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	test	60.0%	50.0%			
	presentation	60.0%	50.0%			
Recommended reading	Basic literature	Jaumczyk 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:				
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					

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