

Subject card

Subject name and code	, PG_00059971								
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							ngineering	
Name and surname	Subject supervisor		prof. dr hab. inż. Aneta Łuczkiewic		kiewicz				
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	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	30		5.0		19.0		54	
Subject objectives	The aim of the subject is to analyze legal standards, monitoring and analysis of environmental pollution related to energy sector. Determining the impact of pollution on the occurrence of specific diseases. Possibility of reducing emissions in the context of improving environmental quality and ensuring indoor comfort.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_U07		The student is able to plan and conduct field and laboratory research leading to the assessment of the effectiveness of the solutions used in environmental engineering			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[K7_U08] is able to assess risks in the implementation of engineering projects and implement appropriate safety rules		The student is able to assess threats when implementing engineering projects and implement appropriate mitigation strategy and safety rules.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	K7_W05		The student has knowledge of the impact of construction investments on the environment			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	K7_W03		The student has in-depth, structured and theoretically based knowledge related to measurement, management and environmental monitoring			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			

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Subject contents	Trends in emissions of industrial pollutants related to energy sector. Legal acts referring to monitoring indoor and out-door environmental quality in energy systems. Division of sources depending on the pollutants emission and spread. Characterization of pollutants and their persistence in the environment. Costs of industrial air pollution - the impact of pollution on the occurrence of specific diseases. Ways to mitigate and eliminate pollutants emissions. Reducing industrial pollution - assessment, legislation and implementation. Public accountability - access to industrial emissions data Laboratories: Quality of water used in energy systems. Analysis of hygienic and sanitary conditions and the possibility of spreading microbiological factors in areas occupied by people. Methods for maintaining ventilation and air conditioning installations. Methods confirming the cleanliness of the installation						
Prerequisites and co-requisites	Basis of environmental microbiology and chemistry as well as of environmental engineering						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	laboratories - presentation	40.0%	40.0%				
	Lecture - test	60.0%	60.0%				
Recommended reading	Basic literature		am Państwowego Monitoringu Środowiska ce systemu monitoringu jakości powietrza w Polsce				
	Supplementary literature -						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	-	1					
Work placement	Not applicable						

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