

## Subject card

Subject name and code	, PG_00059980								
Field of study	Environmental Engineering								
Date of commencement of studies	February 2024		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	2		ECTS credits			4.0			
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	prof. dr hab. inż. Aneta Łuczkiewicz							
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	30.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-st	rudy	SUM	
	Number of study hours	60		5.0		38.0		103	
Subject objectives	The subject concerns aspects of public health (including quality of life) that are determined by biological, chemical and physical environmental factors; it also covers the assessment, elimination and prevention of factors in the environment that may have a negative impact on the current and future generations.								
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	K7_U07		The student is able to plan and conduct the laboratory/field tests, leading to the assessment of the solutions implemented in environmental engineering			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
	K7_U04		The student is able to prepare and present a presentation of carried experiment or research task; Student is able to discuss a presented results.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task			
	K7_U11		When formulating and solving design or research tasks, the student is able to integrate knowledge from the environmental engineering, supported by economic and legal aspects.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task			
	K7_W07		The student has in-depth, structured, theoretically based knowledge of municipal management, including water and wastewater treatment as well as sewage sludge processing.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			

Data wydruku: 18.07.2024 10:22 Strona 1 z 2

Subject contents	Lectures:							
<b>,</b>	Discussion of contemporary threats to public health posed by biological and chemical agents. Tracking environmental pollutants figuring out where and how people are exposed. Laws and policies to reduce different types of pollution in terms of prevention of serious health problems. Analysis of emissions of antopogenic substances in terms of occurrence of environmentally caused diseases. Analysis of the possible mitigation of above-mentioned emissions. Analysis of the popularization of the knowledge in the field of environmental health and the development of positive pro-ecological attitudes in community.							
	Laboratory classes:  Analysis of microbiological contamination of the environment. Analysis of chemical factors shaping the microbiological quality of the environment in the context of toxicological and epidemiological threats. Climate change and resistance of bacterial strains to environmental factors in terms of biodiversity loss and the occurrence of infectious diseases.							
Prerequisites and co-requisites	Podstawy zagadnień z biologii, chemii i inżynierii środowiska							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	lecture - test	60.0%	60.0%					
	laboratory - presentation	40.0%	40.0%					
Recommended reading	Basic literature	Centers for Disease Control and Prevention: https://www.cdc.gov/nceh/tracking/tracking-intro.html						
		WHO: https://www.who.int/data/gho/data/themes/public-health-and-environment						
	Environmental Health - Healthy People 2030: https://healthypeople/objectives-and-data/browse-objectiveshealth							
	Supplementary literature	-						
	eResources addresses Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed								
Work placement	Not applicable							

Data wydruku: 18.07.2024 10:22 Strona 2 z 2