



Subject card

Subject name and code	Environmental threats to public health, PG_000059980							
Field of study	Environmental Engineering							
Date of commencement of studies	February 2026	Academic year of realisation of subject		2026/2027				
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 -> Faculties of Gdańsk University of Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Aneta Łuczakiewicz					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar		
	Number of study hours	30.0	0.0	30.0	0.0	60		
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours	Self-study	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 outcome		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			

Subject contents	<p>Course content – lecture Lectures:</p> <p>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 anthropogenic 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.</p> <p>Laboratory classes:</p> <p>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.</p>									
Prerequisites and co-requisites	Podstawy zagadnień z biologii, chemii i inżynierii środowiska									
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="449 687 790 714">Subject passing criteria</th><th data-bbox="790 687 1132 714">Passing threshold</th><th data-bbox="1132 687 1481 714">Percentage of the final grade</th></tr> </thead> <tbody> <tr> <td data-bbox="449 720 790 747">lecture - test</td><td data-bbox="790 720 1132 747">60.0%</td><td data-bbox="1132 720 1481 747">60.0%</td></tr> <tr> <td data-bbox="449 754 790 781">laboratory - presentation</td><td data-bbox="790 754 1132 781">40.0%</td><td data-bbox="1132 754 1481 781">40.0%</td></tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	lecture - test	60.0%	60.0%	laboratory - presentation	40.0%	40.0%
Subject passing criteria	Passing threshold	Percentage of the final grade								
lecture - test	60.0%	60.0%								
laboratory - presentation	40.0%	40.0%								
Recommended reading	<p>Basic literature</p> <p>Centers for Disease Control and Prevention: https://www.cdc.gov/nceh/tracking/tracking-intro.html</p> <p>WHO: https://www.who.int/data/gho/data/themes/public-health-and-environment</p> <p>Environmental Health - Healthy People 2030: https://health.gov/healthypeople/objectives-and-data/browse-objectives/environmental-health</p> <p>Supplementary literature</p> <p>eResources addresses</p>									
Example issues/ example questions/ tasks being completed										
Practical activites within the subject	Not applicable									

Document generated electronically. Does not require a seal or signature.