



Subject card

Subject name and code	, PG_00059134						
Field of study	Ochrona i monitoring środowiska						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
Education level	first-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	Part-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
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		dr inż. Aleksandra Sokołowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	5.0	0.0	0.0	0.0	25
	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	25		1.0		50.0	76
Subject objectives	The aim of the course is to familiarize students with environmental protection issues, methods for testing environmental samples (water, soil, air), and the applicable legal procedures for environmental monitoring.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W04] possesses elementary knowledge in the field of land mechanics, ground science, land reclamation and geotechnics; has basic knowledge about the composition of air, water and soil, environmental pollution and processes responsible for their formation and ways to reduce them, knows the principles and organization of sustainable water management		The student knows the methods and procedures of environmental research. They are able to interpret research results concerning environmental quality. They know the methods of reducing the adverse effects of human activities on environmental quality.		[SW1] Ocena wiedzy faktograficznej [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym		
	[K6_U01] has the ability to self-education, can obtain information from literature, databases and other sources, uses information technology, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions		The student knows the methods and procedures of environmental research. They are able to interpret the results of studies concerning environmental quality. They are familiar with the institutions responsible for supervising the state of the environment and efficiently use databases concerning both data on environmental quality and legal acts that define guidelines regarding the state of the environment.		[SU1] Ocena realizacji zadania [SU2] Ocena umiejętności analizy informacji [SU4] Ocena umiejętności korzystania z metod i narzędzi [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania		

Subject contents	Course content – lecture Environmental protection.		
	Environmental quality (air, surface waters, groundwater, soils).		
	National environmental monitoring.		
	Course content – exercises Assessment of the physicochemical and microbiological quality of waters.		
	Assessment of air quality status.		
	Soil contamination with heavy metals. Migration of heavy metals in soils and bottom sediments.		
Prerequisites and co-requisites	Environmental Chemistry.		
	Basics of Ecoengineering.		
	Water and Wastewater Technology.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Credit	60.0%	100.0%
Recommended reading	Basic literature	Environmental Engineering, J. Dooley V. Evans, K. Rodgers, Express Publishing, 2019	
	Supplementary literature	Environmental science, V. Evans, J. Doodley, E. Blum, Express Publishing, 2018	
	eResources addresses	Basic https://centrumzmsp.web.amu.edu.pl/publikacje/ - Integratet environmental monitoring https://www.gov.pl/web/gios/panstwowy-monitoring-srodowiska - National environmental monitoring	
Example issues/ example questions/ tasks being completed	Quality of the natural environment.		
	Environmental threats.		
	Climate change.		
	Environmental monitoring.		
	Environmental protection.		
Practical activites within the subject	Not applicable		

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