

Subject card

Subject name and code	, PG_00048003								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group 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			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Enviro	Department of Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor dr inż. Alina W			Vargin					
of lecturer (lecturers)	Teachers							_	
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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		5.0		70.0		100	
Subject objectives	Familiarization with the principles of environmental monitoring (objectives, principles, performers, requirements and disposition), ways to protect the individual components of the environment, sources of pollution								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W14] has a structured knowledge of current legal regulations regarding environmental protection, water and construction law; knows the basics of public procurement law, patent law, intellectual property protection and labor protection		He has ordered knowledge of the current regulations concerning environmental protection, water law, labor protection and public procurement law			[SW1] Assessment of factual knowledge			
	[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		Student has a basic knowledge of the composition of air, water and soil, pollution of the environment and the processes responsible for their formation			[SW1] Assessment of factual knowledge			

Data wydruku: 04.05.2024 05:10 Strona 1 z 3

Subject contents	Lectures						
	Monitoring studies in the aquatic environment - the terms, conditions, possibilities. Water monitoring, the creation of networks, research. Monitoringowanych types of networks - the scope of testing, the scale of research in behaviors to surface water and groundwater. Interpretation of the results of physicochemical tests the waters, the causes of reduced quality. The use of monitoring data for improving and optimizing water management.						
	Air monitoring - measuring stations, the main sources of pollution. Reports about the level of pollution.						
	The concept of monitoring, types of monitoring, the scope and scale of research. Integrated Monitoring of Natural Environment (ZMŚP) and the State Environmental Monitoring, Policies networking and the monitoring of the aquatic environment. Interpretation of the data about the location of groundwater level flow rate (supply). The interpretation of data on water quality (chemistry). The use of monitoring data to improve the water and optimizing water management.						
	The rules for creating air monitoring: measuring stations, reports about the level of pollution. Monitoring of noise in urban areas. The reference method of calculating the dispersion in the atmosphere						
December 1997	anvironmental chemistry and history	. Law of anyironment protection					
Prerequisites and co-requisites	environmental chemistry and biology	y, Law of environment protection					
Assessment methods and criteria	Subject passing criteria test	Passing threshold 55.0%	Percentage of the final grade 100.0%				
Recommended reading	Basic literature	European directives, Law and Regulations in Poland					
	Supplementary literature	articls and reports as well as statisticla date					
	eResources addresses	Adresy na platformie eNauczanie:					

Data wydruku: 04.05.2024 05:10 Strona 2 z 3

Data wydruku: 04.05.2024 05:10 Strona 3 z 3