

Subject card

Subject name and code	, PG 00048775								
Field of study	Green Technologies								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
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	Full-time studies		Mode of delivery			at the university			
Year of study	4		Language of instruction			English			
Semester of study	7		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Chemistry		Assessment will			addeciment			
Name and surname									
of lecturer (lecturers)	Subject supervisor Teachers		dr hab. inż. Marek Tobiszewski dr hab. inż. Marek Tobiszewski						
		ui nab. IIIZ. Iviaiek TUDISZEWSKI							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	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	30		5.0		40.0		75	
Subject objectives	The aim of the course is to familiarize the student with legal regulations and the monitoring system of various components of the environment.								
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	[K6_W03] has a bas of soil, air and water design and supervisi environmentally frientechnologies and tec which do not produck knows technology of neutralization of induand wastewater man a basic understandintheoretical basis of ntypes of apparatus undermical analysis of environmental pollutions.	Has knowledge of the use of standard procedures for the determination of environmental pollutants			[SW1] Assessment of factual knowledge				
Subject contents	[K6_U04] capable of and solving design to field of environmenta to recognize their no aspects, including er economic and legal. applying the principle occupational health able to make initial a engineering solutions.	asks in the all technology n-technical nvironmental, Is capable of eard safety. Is ssessment of and actions	Is able to design an environmental monitoring system to solve the assumed problem. Itoring 2, sampling plans 3, Monitoring			[SU2] Assessment of ability to analyse information			
Subject contents Proroquisitos	 introduction to environmental monitoring 2. sampling plans 3. Monitoring of the atmospheric air 4. Water monitoring 5. Monitoring the quality of the soil Completed courses in analytical chemistry and environmental chemistry. 								
Prerequisites and co-requisites									

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	project	50.0%	50.0%		
	lecture	50.0%	50.0%		
Recommended reading	Basic literature	Pobieranie próbek środowiskowych do analizy / Jacek Namieśnik, Jerzy Łukasik, Zygmunt Jamrógiewicz, 1995, Gdańsk			
	Supplementary literature	none			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	What is the role of environmental monitoring? What is the principle of PM10 and PM2.5 determination? Describe the structure and main tasks of State Environmental Monitoring.				
Work placement	Not applicable				

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