

Subject card

Subject name and code	ENVIRONMENTAL CHEMISTRY, PG_00059996								
Field of study	Environmental Engineering								
Date of commencement of	February 2024		Academic year of			2023/2	2023/2024		
studies			realisation of subject						
Education level	second-cycle studies		Subject gro	oup			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			English			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Environmental Engineering Technology -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej								
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	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours inclu	uded: 0.0	•		•		•		
Learning activity and number of study hours	Learning activity	Participation in classes including plan		Participation i consultation h		Self-study		SUM	
	Number of study hours	30		5.0		20.0		55	
	environments, and the effects of human activity on them. It includes topics such as: atmospheric chemistry, marine and inland water chemistry, environmental monitoring and modelling, pollution tracking, removal and remediation. An interdisciplinary approach, implemented during the lectures and tutorials, is particularly encouraging the students to advanced understanding of the linkages between chemistry and physical or biological processes.						, removal and articularly		
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U01] can obtain information from literature, databases and other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions		The ability to obtain information from literature, databases and other sources, to integrate the obtained information, interpret it and draw conclusions			[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information			
	K7_W03					[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Lectures:Examples of the use of chemicals (in everyday life, in industry, agriculture) - advantages and disadvantages. Hazardous substances in the environment (air, soil, water, food contamination). Ecological and health threats. Micro-pollutants in the environment. Examples of toxic waste disposal, especially in terms of biodegradation. Selected aspects of bioeconomy Tutorials: to identify and formulate specifications for simple engineering tasks of a practical nature. The ability to make a critical analysis of the functioning and evaluation of existing technical solutions.								
December 1975									
Prerequisites and co-requisites	Basic concepts of environmental chemistry								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Lectures		60.0%		60.0%				
	Tutorials		60.0%			\$trop2 1 7 2			

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Recommended reading	Basic literature	Gary W. van Loon, Stephen J. Duffy , Environmental Chemistry: A global perspective, Oxford University, Oxford, 2005.				
		https://www.pdfdrive.com/an-introduction-to-environmental-chemistry-e17374243.html				
	Supplementary literature	nie dotyczy				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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