

Subject card

Subject name and code	, PG_00059981								
Field of study	Environmental Engineering								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025			
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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Environmental Engineering Technology -> Faculty of Civ			of Civil	I and Environmental Engineering				
Name and surname	Subject supervisor	prof. dr hab. inż. Magdalena Gajewska							
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 included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours 30			5.0		20.0		55	
Subject objectives	Understanding the Principles and Significance of Designing Elements of Blue-Green Infrastructure in the City."								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	K7_U02		Is able to work both independently and as part of a team		[SU1] Assessment of task fulfilment				
	[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		Can acquire information from literature, databases, and other sources; capable of integrating obtained information, interpreting and critically assessing it, drawing conclusions, and formulating and thoroughly justifying opinions			[SU1] Assessment of task fulfilment			
	[K7_W08] has knowledge necessary to understand the social, economic, legal and other non-technical determinants of engineering activities and their incorporation in engineering practice		Possesses the knowledge necessary to understand the social, economic, legal, and other non-technical aspects influencing engineering activities and to consider them in engineering practice.			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U04		Is capable of preparing and delivering a presentation on a project task and leading a discussion regarding the presented presentation			[SU5] Assessment of ability to present the results of task			
	[K7_W11] has knowledge to analyze, evaluate and optimize processes, objects and systems of environmental engineering and knows the principles of rational energy management and resources		Has the knowledge to analyze, assess, and optimize processes, objects, and systems in environmental engineering, as well as understands the principles of efficient energy management and resource conservation."			[SW3] Assessment of knowledge contained in written work and projects			

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Subject contents	Basic Definitions and Concepts - BGI, NBS - Nature-Based Solutions, the Need for NBS Application, Solutions Before and After the Pipe Ends, Their Characteristics, Design Principles, and Benefits. Definitions, Classification, and Types of Hydrophytic Systems, Pollutant Removal Processes, Design Principles of Hydrophytic Systems in Urbanized Areas."					
Prerequisites and co-requisites	Hydraulics Water and Wastewater Technology Urban Watershed Hydrology Climate-Resilient City Engineering					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	project	55.0%	100.0%			
Recommended reading	Basic literature	Wetland Technology, Practical Information on the Design and Application of Treatment Wetlands. (2019) Ed Günter Langergraber, Gabriela Dotro, Jaime Nivala, Anacleto Rizzo and Otto R. Stein. ISBN: 9781789060171 (eBook) 2020:190				
	Supplementary literature	Blue Green Solutions guidehttps://www.climate-kic.org/projects/blue-green-dream/ https://bgd.org.uk/tools-models/				
	eResources addresses	Resources addresses Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Rainwater management project using BGI for a selected regionWastewater treatment project for a tourist town - variable PE					
Work placement	Not applicable					

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