

Subject card

Subject name and code	, PG_00059981							
Field of study	Environmental Engineering							
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026		
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 Civil and Environment				vironmental En	gineering		
Name and surname	Subject supervisor		prof. dr hab. ir	nż. Magdalena	Gajews	ska		
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	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 include plan		Participation in consultation hours		Self-study		SUM
	Number of study 30 iours		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_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		
	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_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_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_U02		Is able to work both independently and as part of a team			[SU1] Assessment of task fulfilment		

Data wygenerowania: 22.11.2024 03:57 Strona 1 z 2

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	rces 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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