

Subject card

Subject name and code	Environmental Management and Monitoring , PG_00060045								
Field of study	Environmental Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2022/2023			
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	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Enviro	eering Technol	of Civil	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	ct Seminar		SUM	
	Number of study hours	15.0	0.0	15.0	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				Self-study SUM		SUM		
	Number of study 30 hours		5.0		19.0		54		
Subject objectives	Getting to Know the rolles and methods and pronciples of environmental management								
Learning outcomes	Course out	Subject outcome			Method of verification				
	critically evaluate them, draw conclusions, and formulate and		Can obtain information from literature, databases, and other sources; able to integrate the information obtained, to make their interpretation and critical evaluation, as well as draw conclusions and formulate and fully justify 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		Student has the knowledge necessary to understand the social, economic, legal and other non-technical considerations engineering activities and take them into account in engineering practice			[SW1] Assessment of factual knowledge			
	[K7_U08] is able to assess risks in the implementation of engineering projects and implement appropriate safety rules		Is able to assess threats in the mplementation of engineering projects and implement the appropriate security principles			[SU2] Assessment of ability to analyse information			
	K7_W03		Has in-depth, structured and theoretically based knowledge related to measurements, management and monitoring of the environment			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U03		Can prepare detailed documentation of the results of an experiment, design or research task			[SU1] Assessment of task fulfilment			

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Subject contents	Evolution of methods for environmental management, the principle of sustainable development, Life cycle assessment (LCA), best available techniques and practices (BAT and BAP), EU Directives and polish Regulations. Principles, goals and methods of NBS for environmental protection. Development of an extended concept for the project of using natural methods in environmental protection. The task is to inventory the current state of problem identification and develop an expanded concept of river revitalization for the selected purpose. The study contains: display and a board					
Prerequisites and co-requisites	SSPK15, SSPK18, SSPK30, SSP41A, SSP41B, SSPK42					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	assesment of presentation and paper	60.0%	100.0%			
Recommended reading	Supplementary literature	Cahill L.B.: Environmental Audits. Government Institutes Inc., Rock Maryland, USA. Nowe horyzonty i wyzwania w analityce i monitoringu środowiska. Red.: Namieśnik J., Chrzanowski W., Szpinek P.: Centrum Doskonałości Analityki i Monitoringu Środowiska, Gdańsk 2003. von Zharen W.M.: ISO 14000 Understanding the Environmental Standards. Government Institutes Inc., Rockville, Maryland, USA. dedicated publications and design rules				
	Supplementary literature	directive and standards , reports on environment and the sate of the art, Publications and design guidelines				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Rules for preparing SWOT analysis, principles of rainwater management in urbanized areas, taking into account the adaptation of cities to climate change Publications and design guidelines of NBS					
Work placement	Not applicable	Not applicable				

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