

Subject card

Subject name and code	Group Project - Hydraulical and Hydrochemical Practice, PG_00059149								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		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						Engineering		
Name and surname	Subject supervisor dr hab. Katarzyna Jankowska				а				
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Sen		SUM	
	Number of study hours	4.0	0.0	0.0	26.0	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		3.0		20.0		53	
Subject objectives	The main goal of the previous study and c chemistry and biolog face a complex proje hydrometric and geotaken from streams in	ombine theored y to analyze er ct task, which t detic measurer	tical and praction overvironmental en they will performents, as well a	cal knowledge on gineering prob m in groups. Th as chemical and	of hydro lems. D e stude	logy, m uring th nts' tasl	eteorology, g ne course the k will be to co	eodesy, students will induct detailed	

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K6_W05] knows the theoretical basis of hydromechanics and its practical models, necessary to solve technical problems in the field of environmental engineering (sanitary engineering, water melioration, water management and flood protection, pollution spread)	The student has a structured and developed knowledge of hydraulics and uses technical methods of calculation and solves hydraulic problems.	[SW1] Assessment of factual knowledge			
	[K6_U08] can use properly selected methods and devices of hydraulics and hydrology, enabling determination of basic quantities characterizing the flow of water in open channels and rivers, pipelines and flow objects of environmental engineering	The student has a structured and developed knowledge of hydraulics and uses technical methods of calculation and solves hydraulic problems.	[SU1] Assessment of task fulfilment			
	[K6_W04] possesses elementary knowledge in the field of land mechanics, ground science, land reclamation and geotechnics; has basic knowledge about the composition of air, water and soil, environmental pollution and processes responsible for their formation and ways to reduce them, knows the principles and organization of sustainable water management	The student has a structured and developed knowledge of soil mechanics, soil science, land remediation and geotechnics, and understands sustainable water resources management issues.	[SW3] Assessment of knowledge contained in written work and projects			
	[K6_W14] knows and understands the methods of measuring basic quantities characteristic for fluid mechanics and hydraulics, hydrology; knows the calculation methods and IT tools necessary to analyze the results of laboratory and field work	The student acquires basic skills in reading and observing meteorological elements.	[SW1] Assessment of factual knowledge			
	[K6_U09] is able to use well-chosen methods and measuring devices that enable determination of basic parameters of the water treatment process and wastewater treatment; can perform simple laboratory tests leading to the assessment of water quality, pollutant load in sewage	the methods and equipment for measuring the parameters of the water treatment process and the wastewater treatment. The student understands and is able to perform simple laboratory tests aimed at assessing the quality of of water and the load of of contaminants.	[SU1] Assessment of task fulfilment			
	Thanks to the implementation of the project based learning method, it will be possible to simulate real problems that students of Environmental Engineering will encounter in their future professional work. Thanks to group work, students will have a chance to solve more difficult and extensive tasks that could pose problems in individual projects. An important part of the project is the systematic work from the beginning of the semester, where, with the support of teachers, students will be able to choose the area of research and measurement on their own, prepare for the field and laboratory, and complete the required tasks. The final stage of the subject is to prepare a comprehensive study and present it at the seminar. Translated with www.DeepL.com/Translator (free version)					
	Knowledge of the following subjects: hydraulics, hydrology, meteorology, geodesy, chemistry and the basics of eco-engineering.					
Assessment methods and criteria	Subject passing criteria project presentation	Passing threshold 60.0% 60.0%	Percentage of the final grade 80.0% 20.0%			
Recommended reading	Basic literature Supplementary literature eResources addresses	Lecture teaching materials The student independently prepares a study on certain water pollutants and methods of their elimination. Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed		Auresy ha piationnie enautzanie.				
	Not applicable					

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