

## Subject card

Subject name and code	, PG_00059984							
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 Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor		dr hab. inż. Tomasz Kolerski					
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				Self-study		SUM	
	Number of study hours	30		5.0		19.0		54
Subject objectives	The aim of the course is to acquaint the student with water resources management in Poland based on the main planning documents							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K7_W01		Basics of using Quantum GIS (QGIS)			[SW3] Assessment of knowledge contained in written work and projects		
	K7_U10		Analysis of the operation of the Kielpinek reservoir during the flood surge			[SU4] Assessment of ability to use methods and tools		
	K7_W09		Transformation of rainfall into runoff in a natural catchment and including storm sewage			[SW3] Assessment of knowledge contained in written work and projects		
						[SU4] Assessment of ability to use methods and tools		

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Subject contents	1. Water resources management in Poland 2. Planned investment of the E40 waterway as an example of integrated water resources management 3. Drought Counteraction Plan 4. Catalog of actions; Examples of water retention actions 5. Maintenance works on surface waters 6. Analysis of pressure and assessment of their impact on the condition of surface waters 7. Second update of the Water Management Plan (2aPGW); 8. 2aPGW: Catalog of action 9. Integrated actions to ensure good ecological potential of waters 10. Management of water resources in winter, Winter floods 11. Heat balance of snow cover 12. Melting of the snow 13. Siarzewo dam; example of a multi-purpose object						
Prerequisites and co-requisites	Hydrology, Hydraulics, Water Resources Management						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	project	60.0%	50.0%				
	test	60.0%	50.0%				
Recommended reading	Basic literature  Supplementary literature	Ustawa Prawo Wodne Katalog dobrych praktyk w zakresie robót hydrotechnicznych i prac utrzymaniowych wraz z ustaleniem zasad ich wdrażania, Kraków 2018 Il aktualizacja Planu Gospodarowania Wodami Plan Przeciwdziałania Skutkom Suszy  Water Framework Directive					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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