

Subject card

Subject name and code	Fundamentals of Water Management - tutorials, PG_00201405						
Field of study	Water Management and Protection of Water Resources						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study Subject group related to practical vocational preparation		
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			1.0		
Learning profile	practical	Assessment form			credit		
Conducting unit	Laboratory of Limnology -> Department of Hydrology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Wojciech Maślanka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	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	15	1.0	9.0	25		
Subject objectives	Preparation for independent preparation of a balance sheet of water resources and needs, taking into account various sources of supply and purposes of water collection within the catchment area.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GWOZWL3-K06] The student has the ability an informed and reliable assessment of the impact of humans on the aquatic environment.		W_1[K_K06] Is ready to solve research tasks in a team and expanding existing knowledge in order to implement them effectively (B1-4)		[SK8] observation of student's independent or team work		
	[GWOZWL3-U15] The student by solving in groups the assigned problem situations, is able to appropriately set priorities to achieve task defined by themselves or others.		W_2[K_U15] Is able to assess water resources and needs (B.1-4)		[SU2] presentation/project/paper/report		
Subject contents	<p>Exercise issues:</p> <p>B1 Natural, economic and demographic characteristics of the region.</p> <p>B2 Assessment of natural and available water resources.</p> <p>B3 Assessment of water needs of individual groups of water consumers.</p> <p>B4 Comparison of water resources and needs in the region (water and economic balance).</p>						

Prerequisites and co-requisites	general knowledge of the natural environment, especially the water cycle and economy at secondary school level, the ability to use information from various sources		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	completion of final work - project	51.0%	100.0%
Recommended reading	Basic literature	1. Ciepielowski A. (red.), 1995, Metodyka zagospodarowania zasobów wodnych w małych zlewniach rzecznych, Wyd. SGGW, Warszawa, 152 s.	
	Supplementary literature	1. Ciepielowski A., 1999, Podstawy gospodarowania wodą, Wyd. SGGW, Warszawa, 326 s. 2. Szpindor A., 1974, Water management, PWN, Warsaw	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Water and economic balance of a small catchment area located in young glacial areas		
Work placement	Not applicable		

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