University of Gdańsk

Subject card

Subject name and code	Socio-economic aspects of water management - auditorium exercises, PG_00091487		
Field of study	Water Management and Protection of Water Resources		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Humanistic-social subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish Polish
Semester of study	3	ECTS credits	2.0
Learning profile	practical	Assessment form	credit
Conducting unit	Division of Landscape and Environmental Studies -> Institute of Socio-Economic Geography and Spatial Management -> Faculty of Social Sciences -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Katarzyna Jereczek-Korzeniewska	
	Teachers	dr Katarzyna Jereczek-Korzeniewska	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	30	12.0	15.0	57

Subject objectives	1 - Analysis of the provisions of applicable legal acts, including the Water Directive and River Basin Management Plans, Flood Risk Management Plans, and Drought Countermeasures Plans. 2 - Assessment of water status based on data from the State Environmental Monitoring Programme (PMŚ). 3 - Identification of areas at risk of flooding and drought, assessment of the ecological status of water bodies, etc., based on the ISOK portal. 4 - Assessment of the ecological status of selected water bodies (river, lake, coastal, and transitional). 5 - Identification of threats to the aquatic environment of the selected catchment area.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-U03] observe and describe the changes taking place in water management and predict further directions of its development as well as conduct a critical analysis of: case studies of problems of water management and protection of water resources in terms of impact on ecological, social and economic systems natural valorization and assessment of quality of the environment	identification of pollution sources in the catchment area, assessment of the qualitative condition of the river and lake, valuation of areas at particular flood risk	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[GWOZWL3-U10] can communicate with specialists and non-specialists in situations related to water management and protection	diagnosis and protection of the aquatic environment, for example in terms of protected areas dependent on waters (registrations in protection task plans), and in terms of spatial planning, justifies development bans	[SU1] oral statement/conversation/ discussion
[GWOZWL3-K04] maintaining a critical attitude in accepting information from various sources relating to issues in the field of water management	ability to identify sources of data on water levels in Poland, flood risk,	[SK2] presentation/project/paper/ report [SK5] implementation of a problem task
[GWOZWL3-K08] engage in professional work in preparation or implementation of projects for the benefit of society	working with data sets, identifying the ecological status of waters	[SK3] text preparation/written work [SK5] implementation of a problem task
[GWOZWL3-U04] distinguish between objectives, analyze and evaluate modern strategies for managing environment especially in the context of ecosystem approach to managing human activities in the environment with taking into account relevant law regulations and the indication of administrative bodies responsible for the management of waters and the protection of water resources	analysis of drought and flood management plans in the context of climate change, identification of corrective measures to improve the ecological condition of water bodies	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU5] implementation of a problem task
[GWOZWL3-U16] demonstrate creativity in working independently and in team, taking on a variety of roles, including a leadership role	development of a renaturalization project	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task

Subject contents

B.1. Applicable legal acts - Water Law Act, river basin management plans B.2. Significant water management issues in Poland, analysis of pressures in river basins B.3. Assessment of water status in Poland, causes of aquatic environment degradation, State Environmental Monitoring data on the condition of the aquatic environment, classification of water status B.4. Assessment of flood risk, drought and flood effects in river basins B.5. Protection of the aquatic environment, river restoration, wetlands B.6. Selected issues in the management of aquatic resources

Prerequisites and co-requisites

knowledge and skills in the field of hydrology, hydrogeology, hydromorphology, water law, environmental protection law

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	51.0%	30.0%
	51.0%	70.0%

Recommended reading	Basic literature	European Parliament and Council. (2000). Directive 2000/60/EC establishing a framework for Community action in the field of water policy (Water Framework Directive). Official Journal of the European Communities. Act of 20 July 2017 Water Law (Journal of Laws 2017, item 1566, as amended). Minister of Infrastructure. (2023). Regulation on the adoption of water management plans in river basin districts. Warsaw. Minister of Infrastructure. (2023). Regulation on the adoption of flood risk management plans. Warsaw. Bajkiewicz-Grabowska E., Mikulski Z., 2010, General Hydrology, PWN, Warsaw, 340 pp. Bajkiewicz-Grabowska E., Magnuszewski A., 2012, Exercise Guide for General Hydrology, PWN, Warsaw, 196 pp.
	Supplementary literature	State Water Management Polish Waters (2020). Handbook of good practices for surface water renaturation. Warsaw. State Water Management Polish Waters (2022). National surface water renaturation program. Warsaw. State Water Management Polish Waters (2022). Water management plans for river basin districts (II aPGW). Warsaw. State Water Management Polish Waters (2022). Flood risk management plans. Warsaw. Handbook of good practices for surface water renaturation, 2020, ed. P. Pawlaczyk et al., PGW Polish Waters Overview of significant water management issues for river basin districts 2021 Water management in Poland, 2024 selected issues, ed. A. Magnuszewski
	eResources addresses	
Example issues/ example questions/ tasks being completed	Based on flood risk maps, identify 1% and 10% flood areas in a selected catchment/city. Assess the status of a selected water body (waterbody) based on available data.	
Work placement	Not applicable	

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