University of Gdańsk

Subject card

Subject name and code	Water Reesources Managment in Spatial Planning - lecture, PG_00201436		
Field of study	Water Management and Protection of Water Resources		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	2.0
Learning profile	practical	Assessment form	credit
Conducting unit	Department of Hydrology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Katarzyna Jereczek-Korzeniewska	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	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	1.0	19.0	50

Subject objectives	Integration of knowledge and skills in spatial planning. To expand knowledge, skills of environmental, economic and legal conditions of g.w. To introduce to the p.p. system and principles of resource management. To introduce tools for shaping spatial development. To consolidate attitudes for shaping spatial order in the course of professional activity. To become familiar with planning procedures and documents. To acquire the skills to create planning documents, assess the value of the environment and evaluate natural conditions and risks.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-W02] The student knows and understands the importance of advanced knowledge in the sciences allowing to understand the processes and phenomena occurring in the hydrosphere, as well as knowledge of the social sciences and of the Earth's geographic environment - as a a system of interrelated and interacting components.	znaczenie wiedzy z zakresu nauk ścisłych pozwalającej na zrozumienie procesów i zjawisk zachodzących w gospodarce wodnej, a także wiedzy z zakresu nauk społecznych oraz o środowisku geograficznym Ziemi – jako systemie wzajemnie powiązanych i oddziałujących na siebie komponentów; Treści programowe:	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GWOZWL3-W03] The student has an advanced knowledge and understanding of the organisation and legal framework of environmental protection, nature conservation and water management, as well as the principles governing the organisation and operation of hydrological and meteorological services and the fundamentals of Integrated Environmental Monitoring.	the organisation and legal basis of environmental protection, nature conservation and water management, as well as the principles of organisation and functioning of the hydrological and meteorological services and the fundamentals of Integrated Environmental Monitoring Environment;	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GWOZWL3-W04] The student is familiar with advanced research techniques, methods and tools currently used in water management and the protection of water resources, in both the natural and social sciences, including advanced statistical and IT tools enabling the description, modelling and interpretation of data concerning phenomena and processes occurring in the aquatic environment, as well as tools for describing relationships within socio-ecological systems.	has an advanced knowledge of research techniques, methods and tools currently used in water management and conservation water resources in both natural and social sciences, including basic statistical and information technology tools to describing, modelling and interpreting data on phenomena and processes in the water environment, and phenomena and processes in the aquatic environment, and tools for the description of relationships in social-ecological systems	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GWOZWL3-K03] The student has the ability systematic further education and professional development, updating and expand their knowledge and skills, understands the limitations of his own knowledge in the context of civilization progress and recognizes authorities in the professional and scientific environment.	is ready to undergo systematic further and continuous training in order to update and broaden his/ her knowledge and skills, understands the limitations of his/ her own knowledge in the context of the progress of civilisation and recognises authorities in the professional and scientific community in relation to broadly understood water management water management	[SK2] presentation/project/paper/ report [SK5] implementation of a problem task
[GWOZWL3-K05] The student has the ability take responsibility for the safety of their own work and that of others, dealing with emergencies, exercising caution in the laboratory and in the field, responsibility for entrusted equipment and apparatus.	is willing to take responsibility for his own safety and that of others, dealing with emergencies, exercising caution in the laboratory and in the field, responsibility for equipment and apparatus entrusted.	[SK2] presentation/project/paper/ report

Subject contents

A. Problems of the lecture: A.1. Water management as a scientific discipline (genesis and definition of the term) and the process of shaping land use. A.2. Human-environment relations in water management. Environmental barriers and constraints in water management - environmental collisions and conflicts. A.3 Assessment of the natural environment for water management. Ecological structure of space and the role of its protection in water management A.4 Basic legal regulations in the field of natural determinants of spatial planning. A.5 Basis for the preparation of ecophysiographic studies. Basis for preparation of environmental impact assessment of planning documents. A.6 Spatial conflicts - ways of prevention and resolution.

Prerequisites and co-requisites

Secondary school level competence, knowledge of basic physical geography content and ability to analyse the natural environment.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
oral credit	51.0%	100.0%

Recommended reading	Basic literature	A.1. used during the classes: - Contents of legal acts Act on planning and spatial development of 27.03.2003 (Journal of Laws of 2024, item 1130), Act on providing information on the environment and its protection, participation of the society in the protection of the environment and environmental impact assessments of 3.10.2008r. (Journal of Laws of 2024, item 1112) Environmental Protection Law of 27.04.2001r. (Journal of Laws of 2024, item 54), Nature Protection Act of 16.04.2004. (Journal of Laws of 2024, item 1478), - Parysek J. J., 2006, Introduction to spatial management, Wyd. Nauk. UAM, Poznań, current edition. - Domański R., 2017, Spatial economy. Podstawy teoretyczne, Wydawnictwo Naukowe PWN, Warszawa. A.2. studied independently by the student: - Bródka S., 2010, Practical aspects of environmental assessments, Bogucki Wydawnictwo Naukowe, Poznań. - Gaczek W. M., 2003, Management in spatial economy, Oficyna Wydawnicza BRANTA, Bydgoszcz-Poznań. - Ciechanowicz-McLean J., Prawo ochrony i zarządzania środowiskiem, Wyd. Difin, Warsaw 2019, Ciechanowicz - McLean J., Nyka M., Environmental law, Gdańsk - Warsaw 2016.- Kistowski M., Pchałek M., 2009, Natura 2000 in spatial planning the role of ecological corridors, Min. Środ. Warsaw
	Supplementary literature	B. Supplementary literature: - Ciechanowicz-McLean J., Prawo ochrony klimatu, Wyd Powszechne Wydawnictwo Prawnicze, Warszawa 2016, D. Danecka, J.S. Kierzkowska, D. Trzcińska, Restrictions on economic activity due to nature protection, Wyd Wolters Kluwer, Warszawa 2018. Dutkowski M., 1995, Konflikty w gospodarowaniu dobrami środowiskowymi, Wyd. UG, Gdańsk. - Jędraszko A., 2005, Zagospodarowanie przestrzenne w Polsce drogi i bezdroża regulacji ustawowych, Unia Metropolii Polskich, Warsaw. - Kowalczak P., 2024, Climate change, Wyd. 3SMedia, Warsaw - Sołowiej D., 1992, Fundamentals of the methodology of human environmental assessment, Wyd. Nauk. UAM, Poznań,
	eResources addresses	
Example issues/ example questions/ tasks being completed	- What is spatial planning? - What documents are taken into account in spatial planning? - Levels of spatial planning in Poland. - Planning documents and procedures in Poland	
Work placement	Not applicable	

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