

Subject card

Subject name and code	Water reesources managment in spatial planning - lecture, PG_00091511						
Field of study	Water Management and Protection of Water Resources						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	undergraduate studies	Subject group			Obligatory subject group in the field of study Subject group related to scientific research 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					
Conducting unit	Pracownia Hydrologii -> Katedra Hydrologii -> Faculty of Oceanography and Geography						
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		8.0		20.0	58
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-W03] organization and legal basis of environment protection, nature protection and water management, as well as the principles of organization and operation of hydrological and meteorological services and the basics 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-W02] the importance of 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 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-K03] 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	[SK2] presentation/project/paper/ report [SK5] implementation of a problem task
	[GWOZWL3-W04] research techniques, methods and tools currently used in water management and protection of water resources both in the field of natural sciences and social sciences, including basic statistical and information technology tools that make it possible to describe, model and interpret data on phenomena and processes occurring in the aquatic environment, as well as tools for describing relationships in social-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-K05] 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 ecophysiological 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. Literature required for final course credit (oral credit): A.1. used during the class: - Contents of legal acts - The Law on Planning and Spatial Development of 2003, - The Law on Providing Information on the Environment and its Protection, Public Participation in Environmental Protection and Environmental Impact Assessments of 2008. - Law on Environmental Protection of 2001, - Law on Nature Protection of 2004, - Parysek J. J., 2006, Introduction to spatial management, Wyd. Nauk. UAM, Poznań. - Domański R., 2006, Gospodarka przestrzenna. Podstawy teoretyczne, Wydawnictwo Naukowe PWN, Warszawa. A.2. studied independently by the student: - Bartkowski T., 1986, Applications of physical geography, PWN, Warsaw. - Bródka S., 2010, Practical aspects of natural environment assessments, Bogucki Wydawnictwo Naukowe, Poznań. - Gaczek W. M., 2003, Management in spatial economy, Oficyna Wydawnicza BRANTA, Bydgoszcz-Poznań. - Kistowski M., Pchałek M., 2009, Natura 2000 in spatial planning - the role of ecological corridors, Min. Środ. Warsaw
	Supplementary literature	B. Supplementary literature: - Dutkowski M., 1995, Conflicts in the management of environmental goods, Wyd. UG, Gdańsk. - Jędraszko A., 2005, Zagospodarowanie przestrzenne w Polsce - drogi i bezdroża regulacji ustawowych, Unia Metropolii Polskich, Warsaw. - Kassenberg A., Marek M.J., 1986, Ekologiczne aspekty przestrzennego zagospodarowania kraju, PWN, Warsaw. - Racinowski R., 1987, Introduction to the physiography of settlements, PWN, Warsaw. - Sołowiej D., 1992, Podstawy metodyki oceny środowiska przyrodniczego człowieka, Wyd. Nauk. UAM, Poznań,
	eResources addresses	Adresy na platformie eNauczanie:
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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