

**Subject card**

<b>Subject name and code</b>	Water reasources managment spatial planning - laboratory exercises, PG_00091512						
<b>Field of study</b>	Water Management and Protection of Water Resources						
<b>Date of commencement of studies</b>	October 2024		<b>Academic year of realisation of subject</b>		2025/2026		
<b>Education level</b>	undergraduate studies		<b>Subject group</b>		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		
<b>Mode of study</b>	full-time studies		<b>Mode of delivery</b>		at the university		
<b>Year of study</b>	2		<b>Language of instruction</b>		Polish		
<b>Semester of study</b>	4		<b>ECTS credits</b>		1.0		
<b>Learning profile</b>	practical		<b>Assessment form</b>				
<b>Conducting unit</b>	Pracownia Hydrologii -> Katedra Hydrologii -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Katarzyna Jereczek-Korzeniewska				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		4.0		10.0	29
<b>Subject objectives</b>	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-U02] select and independently apply basic research techniques and tools, with adhering to established analytical procedures in the field of environmental research in water management, adequately to the considered research problem	Students will be able to select and independently apply basic techniques and research tools, following established analytical procedures, in the scope of environmental research in water management, adequate to the a considered research problem	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[GWOZWL3-U07] use literature and other available sources of information, including information technology, multimedia, Internet, databases, and select and critically evaluate information	The student is able to use literature and other available sources of information in water management, including information technology, multimedia, Internet resources, databases, and to select and critically evaluate information;	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[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 willing to undergo systematic continuing education and professional development, 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 that deal with water management in a broad sense;	[SK2] presentation/project/paper/report [SK5] implementation of a problem task
[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, taking responsibility for entrusted equipment and apparatus	[SK2] presentation/project/paper/report	
Subject contents	B. Problems of exercises: B.1. Basic tools for shaping spatial development at local, regional and national levels; B.2. Identification of basic natural conditions and design of the main directions of spatial development at local, regional and national scales		
Prerequisites and co-requisites	Competence at secondary school level, 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
	completion of the credit work	51.0%	100.0%
Recommended reading	Basic literature	A.1. used during the classes: - Contents of legal acts - The Law on Spatial Planning and 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., Pchalek 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	- natural conditions of spatial development - local analysis - basis for spatial planning - selection of forms of protection - development		

Work placement	Not applicable
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