

Subject card

Subject name and code	Ecology of inland waters, PG_00103488						
Field of study	Environmental Protection						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2027/2028	
Education level	Bachelor's studies	Subject group				Optional subject group	
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	academic	Assessment form				credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Krzysztof Banaś				
	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		5.0		15.0	50
Subject objectives	<p>1. Understanding of the phenomena and processes in aquatic biocoenoses and ecosystems and the relationship between aquatic organisms and their habitat. 2. Knowledge of the specificity and role of the most important groups of organisms in freshwater ecosystems. 3. Understand the relationships related to the impact of anthropopressure on the processes of inland water ecosystems. 4. Knows the principles of rational use and protection of aquatic ecosystems.</p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development.		The student sees the need to update knowledge of aquatic ecosystems and their protection, identifies the importance of the acquired knowledge and skills in this area for achieving sustainable development in the management of water resources.		[SK1] oral statement/conversation/discussion		
	[OŚL3_W08] Explains the mechanisms of economic and consumer pressure on the environment and recognises the possibilities of reducing it using the latest knowledge and scientific achievements.		Identifies and explains the causes of anthropogenic transformation of aquatic ecosystems. Knows the principles of rational use of inland water resources and the basic methods of their protection and recultivation.		[SW4] test/exam - oral or written		
	[OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation.		Understands and describes the phenomena and processes that occur in freshwater ecosystems at different levels of organization. Characterizes the peculiarities and roles of the main groups of freshwater organisms.		[SW4] test/exam - oral or written		

Subject contents	Physical and chemical properties of the freshwater environment. Thermology and oxygen conditions in lakes and rivers, factors affecting the availability of mineral and organic substances in aquatic ecosystems. Genesis and typology of water bodies. Adaptations of organisms to the conditions of the aquatic environment. Overview of basic groups of organisms and their functions in inland water ecosystems. Effects of physical, chemical and anthropogenic factors on the structure of biocoenoses in freshwater ecosystems. Anthropogenic transformation, revitalization and protection of aquatic ecosystems. Peculiarities of Pomeranian lakes - characteristics of lobelia lakes, hard-water brackish lakes, natural dystrophic lakes, oxbow lakes and eutrophic reservoirs, ponds.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written colloquium with open questions	51.0%	100.0%
Recommended reading	Basic literature	n/a	
	Supplementary literature	n/a	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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