

Subject card

Subject name and code	Hydroecology - lectures, PG_00156196						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025	
Education level	undergraduate studies		Subject group				
Mode of study	full-time studies		Mode of delivery			at the university	
Year of study	1		Language of instruction			Polish Polish language	
Semester of study	1		ECTS credits			2.0	
Learning profile	practical		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksandra Zgrundo				
	Teachers		dr Aleksandra Zgrundo dr Zuzanna Sylwestrzak				
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		3.0		15.0	48
Subject objectives	Introduction to ecology as a scientific discipline utilizing specialized terminology and research methodologies. The course presumes that, in addition to mastering fundamental concepts and techniques pertinent to the investigation of ecological systems, the student will grasp the significance of abiotic and biotic factors, as well as the processes that shape the structure and function of ecosystems.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[AKWAL3_W01] knows and understands the relationship between the achievements in the selected fields of science and disciplines of natural sciences, and the possibility of their application in socio-economic life		Students understand and correctly describe the basic chemical / biological / physical processes and phenomena, analyze them in relation to the aquatic environment Students understand and understands chemical, biological and physical processes and phenomena, identifies them, analyzes their course in relation to the aquatic environment and is aware of the connections between various natural disciplines.			[SW4] test/exam - oral or written	
Subject contents	- Ecology - aim and object of study, basic concepts: habitat, environment, ecological niches, environmental factors and their impact on organisms, the concept of limiting factor with regard to Liebig's law of the minimum and ecological tolerance, ecological spectra, life forms, adaptations. - Methodology of basic ecological studies. - Structure, dynamics and functioning of populations, biocoenoses and ecosystems. The phenomenon of homeostasis and ecological succession. - Introduction to evolutionary ecology. - Biodiversity (definitions, threats, legal regulations). - Contemporary threats to aquatic ecosystems. - Practical application of ecological theories in the formation of artificial systems.						

Prerequisites and co-requisites	Basic information in the field of biology and hydrobiology (high school level)		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	51.0%	100.0%
Recommended reading	Basic literature	1. Kingsolver R.W. 2006. Ecology on campus: lab manual. San Francisco [etc.], Pearson-Benjamin Cummings 2. Smith T.M., Smith R.L. 2014. Elements of Ecology. San Francisco [etc.], Benjamin Cummings	
	Supplementary literature	1. Krebs Ch.J. .2011. Ekologia. Eksperymentalna analiza rozmieszczenia i liczebności. Wydawnictwo Naukowe PWN, Warszawa	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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