

Subject card

Subject name and code	Hydrobiology - lecture, PG_00103330						
Field of study	Oceanography						
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		
Semester of study	2	ECTS credits			3.0		
Learning profile	academic	Assessment form					
Conducting unit	Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Waldemar Surosz					
	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		25.0	60	
Subject objectives	Learning about the specific ecological characteristics of the aquatic environment and the associated biological adaptations of aquatic organisms						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	OCEANL3-W02	knows and understands the basic biological processes occurring in the aquatic environment, identifies and correctly describes basic phenomena hydrobiological and natural processes occurring in the marine environment			[SW4] test/exam - oral or written		
	OCEANL3-W01	to an advanced degree, knows and understands the terminology appropriate in the natural sciences, with particular emphasis on hydrobiological sciences necessary for understanding the basic phenomena and processes occurring in the aquatic environment			[SW4] test/exam - oral or written		
Subject contents	<p>A.1. Specificity of conditions of life in water (physical, chemical, edaphic, biological parameters).</p> <p>A.2. Biology of aquatic organisms (buoyancy, osmoregulation and ionoregulation, respiration, nutrition, reproduction).</p> <p>A.3. Overview and characteristics of ecological formations: plankton, nekton, pleuston, neuston, benthos.</p> <p>A.4. Ecobiological characteristics of the aquatic environment in terms of basic types of reservoirs.</p> <p>A.5. Formation of ecological parameters in the littoral, sublittoral, benthic and pelagic.</p> <p>A.6. Basic data on the productivity of aquatic ecosystems.</p> <p>A.7. Problems of modern hydrobiology: eutrophication, acidification and saprobation.</p>						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	egzam	51.0%			100.0%		

Recommended reading	Basic literature	Pliński M., 1992, General Hydrobiology, ed. University of Gdansk, (and later editions) Odum E., 1982, Fundamentals of ecology, PWRiL, Warsaw, Poland. Żmudziński L., 1974, The animal world of the Baltic Sea, WSIP Wydawnictwa Szkolne i Pedagogiczne Starmach K., Wróbel., Pasternak K., 1976, Hydrobiology, Limnology, PWN, Warsaw Thurman U., 1982, Outline of oceanology, Wydawnictwo Morskie, Gdansk, Poland.
	Supplementary literature	Chojnacki J., 1998, Basics of water ecology, Wyd. Akademii Rolniczej w Szczecinie, Szczecin Kajak Z., 1998, Hydrobiology - Limnology, Wyd. Nauk. PWN, Warsaw Mikulski J., 1982, Biology of inland waters, PWN, Warsaw Opuszyński K., 1979, Basics of fish biology, Edition: PWRiL Pliński M., 2008, Biology of marine organisms, University of Gdańsk, Gdańsk Podbielkowski Z., Tomaszewicz H., 1979, Outline of hydrobotany, PWN, Warszawa Polakowska M., 1961, Water plants Atlas, Państwowe Zakłady Wydawnictw Szkolnych Starmach K., 1973, Inland waters. Outline of hydrobiology, UJ script, Cracow Telesh I., Postel L., Heerkloss R., Mironova K., Skarlato, S. (2008). Zooplankton of the Open Baltic Sea: Atlasdansk.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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