

Subject card

Subject name and code	Hydrobiology - laboratory exercises, PG_00103331						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
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		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Justyna Kobos				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	0.0	0.0	45
	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	45		5.0		50.0	100
Subject objectives	To learn about the ecological characteristics of the aquatic environment, the functioning of inland and marine ecosystems, and how various organisms adapt to life in the aquatic environment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	OCEANL3-U01		able to use applicable terminology in various forms of speech in the field of hydrobiology		[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written		
Subject contents	Topics of exercises: 1. to learn about the properties of the aquatic environment, i.e. the physico-chemical, edaphic and biotic parameters of fresh and marine waters, which have a major impact on the occurrence and biology of the organisms living there. 2. to introduce different types of water - river, lake and sea. 3. to learn about plant and animal organisms living in different aquatic ecosystems - saline, brackish and fresh. 4. to learn about the interrelationships and interconnections of these organisms with the environment, using selected examples. 5. to discuss the problems of modern hydrobiology - including drought, eutrophication, acydification.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	karty pracy		51.0%		30.0%		
	tests		51.0%		70.0%		

Recommended reading	Basic literature	Plińsk M., 1992, Hydrobiologia ogólna, wyd. Uniwersytet Gdański (i wydania późniejsze) (in Polish) Górniak A., Kajak Z., 2019, Hydrobiologia - Limnologia, wyd. PWN (in Polish) Odum E., 1982, Podstawy ekologii, PWRiL, Warszawa (in Polish)
	Supplementary literature	Żmudziński L., 1974, Świat zwierząt Bałtyku, WSiP (in Polish) Thurman U., 1982, Zarys oceanologii, Wydawnictwo Morskie, Gdańsk (in Polish) Chojnacki J., 1998, Podstawy ekologii wód, wyd. Akademii Rolniczej w Szczecinie, Szczecin (in Polish) Kajak Z., 1998, Hydrobiologia - Limnologia Wyd. Nauk. PWN, Warszawa (in Polish) Opuszyński K., 1979, Podstawy biologii ryb, Wyd. PWRiL (in Polish) Pliński M., 2008, Biologia organizmów morskich, Wyd. Uniwersytet Gdański, Gdańsk (in Polish) Podbielkowski Z., Tomaszewicz H., 1979, Zarys hydrobotaniki, PWN Warszawa (in Polish) Polakowska M., 1961, Rośliny wodne - Atlas, Państwowe Zakłady Wydawnictw Szkolnych (in Polish) Starmach K., 1973, Wody śródlądowe. Zarys hydrobiologii. Skrypt UJ Kraków (in Polish)
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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