University of Gdańsk

Subject card

Subject name and code	Copy Hydrobiology - laboratory exercises, PG_00103331		
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	Obligatory subject group 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	
Conducting unit	Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography		
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
tests	51.0%	100.0%

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	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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