University of Gdańsk

Subject card

Subject name and code	Marine Biodiversity - laboratory exercises, PG_00118065		
Field of study	Oceanography		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	3.0
Learning profile	academic	Assessment form	
Conducting unit	Katedra Ekologii Morza -> Faculty of Oceanography and Geography		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Halina Kendzierska	
	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

Additional information:
Practicals in classroom or field trip or partially on-line classes.

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	25.0	75

Subject objectives

Familiarize students with biodiversity at different levels of organization, its value for the ecosystem and humans, threats and potection.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-K04] is willing to constantly deepen knowledge in the field of oceanography and improve professional qualifications, supported by the knowledge of experts	Readines to constantly improve his knowledge of marine biodiversity and enhance his professional skills, support himself with the knowledge of experts	[SK1] oral statement/conversation/ discussion
OCEANL3-U12	Ability to systematically expand and update knowledge of marine biodiversity and improve professional skills	[SU8] observation of student's independent or team work
OCEANL3-U02	Ability to individually and in teams make observations and perform measurements in the laboratory using appropriately selected techniques, adequately to the set research problem in the field of marine biodiversity, is able to develop, describe and present the results of research and formulate conclusions on this basis	[SU3] text preparation/written work [SU4] test/exam - oral or written [SU8] observation of student's independent or team work

Subject contents	Working with a taxonomic guide and learning how to identify benthic representatives to species (including shrimps, crabs, crayfish, sandflies, gudgeons). Variety of shapes, body proportions, iso- and allometric growth, variety of colours. Analysis of benthic samples leading to an understanding of the species diversity of hard and soft bottom benthic communities. Sample analysis leading to an understanding of the diversity of the phytophilous fauna. Functional diversity of zoobenthos. Reproductive diversity. Native and non-native species in marine ecosystems, including the Baltic Sea. The Washington Convention (CITES) in practice.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
colloquium	51.0%	50.0%
activity and preparation for classes	51.0%	5.0%
assessment work (written work (proper conduct of the study, proper interpretation of the results, proper conduct of the written study))	51.0%	45.0%

Recommended reading

Basic literature	Barnes R.S.K., Calow P., Olive P.J.W., Golding D.W., Spicer J.I., 2007 The Invertebrate: a Synthesis. 4th Edition. Blackwell Publishing, 288 pp. Hayward P.J., Ryland J.S., 1995. handbook of marine fauna of North West Europe, Oxford University Press 15, 816 pp. Piechocki A., Wawrzyniak-Wydrowska B., 2016. Guide to Freshwater and Marine Mollusca of Poland, Bogucki Wydawnictwo Naukowe, 280 pp. Szaniawska A., 2014, Skorupiaki Bałtyku, UG Publishing House, Sopot, 191 pp. Zettler M., Zettler A., 2017, Marine and freshwater Amphipoda from the Baltic Sea and adjacent territories, Tesinska Tiskarna, Czech Republic Żmudziński L., 1990, The animal world of the Baltic Sea, Wydawnictwo Szkolne i Pedagogiczne, 195 p
Supplementary literature	-
eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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