University of Gdańsk

Subject card

Subject name and code	Marine Biodiversity - laboratory, PG_00206162		
Field of study	Oceanography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	2	Language of instruction	Polish
Semester of study	4	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector		
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:

Laboratory work, presentation, discussion, study visit.

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	3.0	22.0	70

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-U02] is able to independently and collaboratively conduct observations and perform measurements in the field or laboratory using appropriately selected techniques, tailored to the research problem	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
[OCEANL3-U12] is able to systematically expand and update oceanographic knowledge and enhance professional qualifications	Ability to systematically expand and update knowledge of marine biodiversity and improve professional skills	[SU8] observation of student's independent or team work
[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

<table>
<tr><td>Subject contents</td><td>Working with a taxonomic guide and learning how to identify benthic representatives to species (including shrimps, crabs, crayfish, sandflies, gudgeons).
Variety of colours and shapes (including deformities) and growth in Bivalvia
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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Test</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>Activity and preparation for classes</td><td>51.0%</td><td>5.0%</td></tr>
<tr><td>Reports</td><td>51.0%</td><td>45.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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</td></tr>
<tr><td>Supplementary literature</td><td>-</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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