

Subject card

Subject name and code	Marine Biodiversity - laboratory exercises, PG_00118065						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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						
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-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		
	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-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		

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		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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