

Subject card

Subject name and code	Marine Biodiversity - lecture, PG_00205273						
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			2.0		
Learning profile	academic	Assessment form			exam		
Conducting unit	Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Urszula Janas				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		2.0		18.0	50
Subject objectives	To familiarise students with biodiversity at different levels of organisation, its value for ecosystem and humans, threats and ways of protection						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANL3-W06] has an advanced understanding of the principles of managing the marine environment and its resources, as well as the consequences of disrupting the balance of marine ecosystems		He or she knows and understands the principles of management of living marine resources and the consequences of the threats to marine		[SW4] test/exam - oral or written		
	[OCEANL3-W04] has an advanced understanding of issues and research problems in oceanography, and recognizes their connection with other scientific disciplines		He or she has an advanced knowledge and understanding of marine biodiversity research issues and problems and how they relate to other disciplines.		[SW4] test/exam - oral or written		

Subject contents	<p>Categories of biodiversity, methods of estimating the number of species, the use and non-use value of biodiversity and the effects of its reduction. Use of species in medicine, cosmetology and other areas of life. Functional diversity, keystone species, engineering species Habitat and biotope diversity; Hydrothermal vents, cold seeps, coral reefs, hypersaline deep sea basins, whale graveyards Morphological, phenotypic and genotypic diversity Behavioural and physiological diversity and reproductive diversity Threats to marine biodiversity i.a.: habitat destruction and fragmentation, trade, overexploitation, invasive alien species, eutrophication, hypoxia, climate change, acidification, litter (microplastics), underwater noise, electromagnetic fields, artificial light Forms of biodiversity conservation: conservation and active protection, marine protected area systems, international agreements for the protection of marine biodiversity, bio-education</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
Recommended reading	Written exam with open and test questions	51.0%	100.0%
	Basic literature	<p>Gaston K.J., Spicer J. I., 2008. Biodiversity: An Introduction. 6th Edition. Blackwell Publishing.</p> <p>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 str.</p>	
	Supplementary literature	<p>Snoeijs-Leijonmalm P., Schubert H., Radziejewska T., (Red.), 2017, Biological oceanography of the Baltic Sea. Springer Science & Business Media, 682 str.</p>	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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