

Subject card

Subject name and code	Principles of marine invertebrates biology - lecture, PG_00118066						
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			2.0		
Learning profile	academic	Assessment form					
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Luiza Bielecka				
	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		6.0		24.0	60
Subject objectives	To familiarize the student with the biology and ecology of marine invertebrates, the diversity of these animals, the specific structure of their bodies, including basic identification features used to recognize animals at various taxonomic levels and features indicating adaptations to the environment.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	OCEANL3-W01		Knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish, English and/or Latin) with particular emphasis on the biology and ecology of marine invertebrates			[SW4] test/exam - oral or written	
	OCEANL3-W05		Knows at an advanced level techniques, research methods and tools used for identification analyzes of marine invertebrates in order to describe and interpret phenomena and processes occurring in the marine environment			[SW4] test/exam - oral or written	
	OCEANL3-U01		Can use scientific terminology fluently and appropriately in presenting and discussing problems in the field of oceanography with particular emphasis on the biology and ecology of marine invertebrates			[SU4] test/exam - oral or written	
Subject contents	A detailed review of all marine invertebrate taxa, starting from Protista through the main taxonomic groups, with particular emphasis on the fauna of the Baltic Sea. Functional morphology, comparative anatomy, animal taxonomy (diagnostic features specific to subsequent levels of taxonomy). Adaptive features related to the type of nutrition and the area of occurrence of individual taxonomic units, adaptations of organisms to various environmental conditions						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		oral exam	51.0%
Recommended reading	Basic literature	<p>Błaszak Cz., 2009. Zoologia, Bezkręgowce, tom I i II. PWN. Grabda E., 1986. Zoologia. Bezkręgowce. PWN. Jura Cz., 1997. Bezkręgowce. PWN. Mańkowski Wł., 1955. Atlas zooplanktonu Bałtyku. Morski Instytut Badawczy. Gdynia. Nybakken, J. W., M. D. Bertness, 2005. Marine biology an ecological approach, Pearson Education, San Francisco. Smith, D. L., K. B. Johnson, 1996. A guide to marine coastal plankton and marine invertebrate larvae. Kendall/Hunt Publishing Com-pany, USA. Sumich, J. L., J. F. Morrissey, 2004. Introduction to the biology of marine life, Jones & Bartlett Publishers, Sudbury. Todd, C. D., M. S. Laverack, G. A. Boxshall, 2006. Coastal Marine Zooplankton. A practical manual for students, Cambridge Uni-versity Press, Cambridge. Żmudziński L., 1990. Świat zwierzęcy Bałtyku. Atlas makrofauny. Wydawnictwo Szkolne i Pedagogiczne, Warszawa.</p>	
	Supplementary literature	Supplemental literature is determined based on students' interests.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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