

Subject card

Subject name and code	Biodiversity of marine organisms - laboratory, PG_00054196						
Field of study	Marine Biotechnology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		English		
Semester of study	1		ECTS credits		2.0		
Learning profile	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Toruńska-Sitarz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	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		5.0		15.0	50
Subject objectives	At the end of the course students will be able to:						
	demonstrate current research practice and methodologies in the field of biodiversity,						
	discuss the possibilities and limitations of biodiversity studies,						
	present biotechnological methods of biodiversity conservation,						
	perform analysis of the genetic variation.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MBMU2-KU02] Can collect and interpret empirical data; applies statistical methods and computer tools in data analysis; formulates conclusions based on empirical data	KU_02 Student can collect and interpret empirical data on the biodiversity of marine organisms; applies statistical methods and computer tools in data analysis; formulates conclusions based on empirical data.	[SU3] text preparation/written work
	[MBMU2-KU01] Can plan and carry out tests in the laboratory and at sea, and document activities and results; can use laboratory equipment under the guidance of a tutor; applies principles of occupational health and safety	KU_01 Student has the ability to plan and carry out research in the laboratory, document the experiments and their results; can use laboratory equipment under the guidance of teaching staff; applies the principles of safety rules and good laboratory practices.	[SU3] text preparation/written work [SU8] observation of student's independent or team work
Subject contents	1. Analysis of phytoplankton samples from different environments (marine open and coastal waters, brackish). 2. Analysis of invertebrate samples from different environments (water column, sea bottom). 3. Analysis of the genetic condition of chosen fish species from the Baltic Sea.		
Prerequisites and co-requisites	Formal requirements: none. Prerequisites: basic knowledge on biology.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Reports	51.0%	100.0%
Recommended reading	Basic literature	Instructions prepared by the teaching staff. Set of up-to-date scientific papers selected by the teaching staff (including SOP, protocols, white papers etc.).	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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