University of Gdańsk

Subject card

Subject name and code	Biodiversity of marine organisms - laboratory classes, PG_00192231						
Field of study	Marine Biotechnology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
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		credit		
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		2.0		18.0	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-KU01] Can plan and conduct research in the laboratory and at sea, and to document procedures and results. Independently or under the supervision of an authorized staff member, carries out work using specialized equipment. Complies with occupational health and safety regulations.	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
[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

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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