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.

<table>
<tr><td>Learning outcomes</td><td>
<table>
<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[MBMU2-KU02] Can collect and interpret empirical data; applies statistical methods and computer tools in data analysis; formulates conclusions based on empirical data</td><td>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.</td><td>[SU3] text preparation/written work</td></tr>
<tr><td>[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.</td><td>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.</td><td>[SU3] text preparation/written work
[SU8] observation of student's independent or team work</td></tr>
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<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites
and co-requisites</td><td>Formal requirements: none.

Prerequisites: basic knowledge on biology.</td></tr>
<tr><td>Assessment methods
and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Reports</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Instructions prepared by the teaching staff. Set of up-to-date scientific papers selected by the teaching staff (including SOP, protocols, white papers etc.).</td></tr>
<tr><td>Supplementary literature</td><td>-</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/
example questions/
tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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