University of Gdańsk

Subject card

Subject name and code	MSc Laboratory I - laboratory classes, PG_00195181		
Field of study	Marine Biotechnology		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2028/2029
Education level	Master'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	English
Semester of study	3	ECTS credits	13.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Marine Biotechnology -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Hanna Mazur-Marzec	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	220.0	0.0	0.0	220

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	220	10.0	95.0	325

Subject objectives

The aim of the laboratory course is to provide students with an in-depth knowledge of the research material (organism) used in the study; to familiarize them with the research methods and techniques applied in the diploma thesis, including their optimization and validation; and to further develop general laboratory skills, particularly in the planning and execution of experiments.

During the course of study, student independently chooses the topic of the diploma thesis from one of the following areas: aquaculture, biologically active natural products of marine organisms, or molecular methods in marine biotechnology.

<table>
<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[MBMU2-KW04] Knows and deeply understands advanced research methods used in marine biotechnology and related sciences</td><td>Possesses knowledge on the advanced methods used in marine biotechnology, especially those applied during MSc laboratory</td><td>[SW1] oral statement/ conversation/discussion
[SW5] implementation of a problem task</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>Possess the ability to plan and perform the laboratory experiments and document the results; is able to use research tools applied during MSc laboratory</td><td>[SU1] oral statement/conversation/ discussion
[SU3] text preparation/written work
[SU5] implementation of a problem task
[SU8] observation of student's independent or team work</td></tr>
<tr><td>[MBMU2-KK03] Is ready to apply the principles of occupational health and safety, especially in the laboratory and at sea; is responsible for their own and others’ safety; can recognize hazards and take appropriate action</td><td>Has an ability to work in accordance with safety regulations, is responsible and can predict the potential hazard.</td><td>[SK1] oral statement/conversation/ discussion
[SK8] observation of student's independent or team work</td></tr>
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<tr><td>Subject contents</td><td>The course content varies and depends on the topic of master thesis</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></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>Ability to correctly interpret the results</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>Quality and progress of student's project</td><td>51.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>Books and articles published in scientific journals related to the topic of master thesis</td></tr>
<tr><td>Supplementary literature</td><td>Books and articles published in scientific journals related to the topic of master thesis</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>Project-dependent</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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