University of Gdańsk

Subject card

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|---|---|---|---|
| Subject name and code | MSc Laboratory I - laboratory classes, PG_00195181 | | |
| Field of study | Marine Biotechnology | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2027/2028 |
| Education level | Master's studies | Subject group | Obligatory subject group in the field of study<br>Optional subject group<br>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>
<table>
<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></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<br>[SK8] observation of student's independent or team 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>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<br>[SU3] text preparation/written work<br>[SU5] implementation of a problem task<br>[SU8] observation of student's independent or team work</td></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<br>[SW5] implementation of a problem task</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>Quality and progress of student's project</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>Ability to correctly interpret the results</td><td>51.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<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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