University of Gdańsk

Subject card

Subject name and code	Aquaculture Microbiology - laboratory classes, PG_00201305		
Field of study	Aquaculture – Business And Technology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Subject group related to practical vocational preparation
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	1.0
Learning profile	practical	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	dr Anna Toruńska-Sitarz	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	15.0	0.0	0.0	15

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	15	2.0	8.0	25

Subject objectives

To learn the basic principles of work in a microbiology laboratory, microbiological methods and techniques; basics of microbial isolation, culture, identification.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[AKWAL3_W04] has an advanced understanding of the principles of optimization of breeding methods for aquatic invertebrates, and has acquired theoretical and practical knowledge of the diagnostic methods used	W_2 [K_W04] knows and understands the basic principles of occupational safety and health in the microbiology laboratory.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[AKWAL3-U02] can make observations and perform simple physical / biological / chemical measurements that are typical in socio-economic activity based on natural sciences	U_1 [K_U02] is able to make observations and perform simple measurements, typical for microbiology.	[SU3] text preparation/written work [SU4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>1. Basic principles of microbiology laboratory work. Methods of microbial isolation and culture.

2. Identification and quantitative analysis of microorganisms based on classical and modern methods.

3. Assessment of microbiological quality of water.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>none</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>Practical assessment</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>Report</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>Short tests</td><td>51.0%</td><td>60.0%</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Script prepared by the lecturer.</td></tr>
<tr><td>Supplementary literature</td><td>-</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.