

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		

Subject contents	<p>1. Basic principles of microbiology laboratory work. Methods of microbial isolation and culture.</p> <p>2. Identification and quantitative analysis of microorganisms based on classical and modern methods.</p> <p>3. Assessment of microbiological quality of water.</p>														
Prerequisites and co-requisites	none														
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 548 794 577">Subject passing criteria</th> <th data-bbox="798 548 1136 577">Passing threshold</th> <th data-bbox="1139 548 1479 577">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 582 794 611">Practical assessment</td> <td data-bbox="798 582 1136 611">51.0%</td> <td data-bbox="1139 582 1479 611">20.0%</td> </tr> <tr> <td data-bbox="456 616 794 645">Report</td> <td data-bbox="798 616 1136 645">51.0%</td> <td data-bbox="1139 616 1479 645">20.0%</td> </tr> <tr> <td data-bbox="456 649 794 678">Short tests</td> <td data-bbox="798 649 1136 678">51.0%</td> <td data-bbox="1139 649 1479 678">60.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Practical assessment	51.0%	20.0%	Report	51.0%	20.0%	Short tests	51.0%	60.0%
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Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>Script prepared by the lecturer.</p> <p>-</p>													
Example issues/ example questions/ tasks being completed															
Work placement	Not applicable														

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