

**Subject card**

<b>Subject name and code</b>	Aquaculture microbiology - laboratory exercises, PG_00075872						
<b>Field of study</b>	Aquaculture – Business And Technology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>				2025/2026	
<b>Education level</b>	undergraduate studies	<b>Subject group</b>					
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	2	<b>Language of instruction</b>				Polish	
<b>Semester of study</b>	3	<b>ECTS credits</b>				1.0	
<b>Learning profile</b>	practical	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Biotechnologii Morskiej -> Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Anna Toruńska-Sitarz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		0.0		0.0	15
<b>Subject objectives</b>	To learn the basic principles of work in a microbiology laboratory, microbiological methods and techniques; basics of microbial isolation, culture, identification.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[AKWAL3_W04] knows and understands 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	
<b>Subject contents</b>	<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	Subject passing criteria	Passing threshold	Percentage of the final grade
	Short tests	51.0%	60.0%
	Report	51.0%	20.0%
	Practical assessment	51.0%	20.0%
Recommended reading	Basic literature	Script prepared by the lecturer.	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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