

Subject card

Subject name and code	Aquaculture microbiology - laboratory exercises, PG_00075872						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group				
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				
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		0.0		0.0	15
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] 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		
Subject contents	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.						

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 eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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