

Subject card

Subject name and code	Aquaculture microbiology - lectures, PG_00075871						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
Education level	undergraduate 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				2.0	
Learning profile	practical	Assessment form					
Conducting unit							
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	30.0	0.0	0.0	0.0	0.0	30
	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	30		5.0		15.0	50
Subject objectives	To learn about the different groups of aquatic microorganisms and the nature of their interactions with other organisms. To introduce students to the importance of the role of microorganisms in the aquaculture of higher organisms and how microorganisms can be applied to improve aquaculture.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[AKWAL3_W03] knows and understands the conceptual categories and terminology related to the biological basis of aquatic organisms breeding, as well as concepts directly relevant to the practical applications of this knowledge		W_1 [K_W03] knows and understands the diversity of aquatic microorganisms and the conceptual categories and terminology relating to the biological basis of the culture of aquatic microbes, as well as concepts directly relevant to the practical applications of this knowledge.		[SW4] test/exam - oral or written		

Subject contents	<p>1. Structure, diversity and ecological functions of aquatic microorganisms.</p> <p>2. Mechanisms regulating the abundance, biomass and diversity of microorganisms.</p> <p>3. Methods used in microbiological studies.</p> <p>4. Microbiological processes and water quality in aquaculture.</p> <p>5. Microorganisms as feed.</p> <p>6. Use of "beneficial microorganisms" in aquaculture.</p> <p>7. Pathogenic microorganisms in aquaculture.</p>		
Prerequisites and co-requisites	none		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	51.0%	100.0%
Recommended reading	Basic literature	Mikrobiologia ogólna H.G. Schlegel; Mikrobiologia środowisk M.K. Błaszczuk; Aquaculture Microbiology and Biotechnology D. Montet, R.C. Ray; Scientific papers	
	Supplementary literature	Mikrobiologia wód G. Rheinheimer; Łowcy mikrobów P. de Kruif; Beneficial Microorganisms in Agriculture, Aquaculture and Other Areas M.T.Liong	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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