

Subject card

Subject name and code	Diseases of Cultivated Invertebrates - lecture, PG_00201297						
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	4	ECTS credits				1.0	
Learning profile	practical	Assessment form				credit	
Conducting unit	Department of Marine Ecosystems Functioning -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Katarzyna Smolarz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	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	1.0	9.0	25		
Subject objectives	The aim of the course is to familiarize students with the knowledge of diseases and pathological changes occurring in farmed invertebrates and the latest diagnostic methods used to identify them. Zoonotic diseases transmitted by farmed invertebrates.						
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		the student knows and understands the principles of optimization of breeding methods and has acquired theoretical and practical knowledge of the applied diagnostic methods for diseases of farmed invertebrates (program content: 1-7)			[SW4] test/exam - oral or written	
	[AKWAL3-K05] student is ready to appreciate the practical application of acquired knowledge		the student is ready to appreciate the practical application of the acquired knowledge in the assessment of the health of farmed invertebrates and the diagnosis of diseases occurring in farms (program contents: 1-7)			[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written	
	[AKWAL3-U03] can competently obtain selected aquatic invertebrates for ongoing breeding and perform simple practical tasks related to their breeding under the guidance of the scientific supervisor		the student is able to skillfully obtain selected aquatic invertebrates for breeding based on the assessment of their health condition and performs simple diagnostics during breeding under the supervision of a scientific supervisor (program contents: 3-4)			[SU4] test/exam - oral or written	

Subject contents	<p>1. Characteristics of the condition called complete body health and various divergences from this condition, which result in damage of a body structure or function.</p> <p>2. Definition of a disease and pathogen; stress as a pathogen.</p> <p>3. Mechanism of the immune response in invertebrates. Techniques for enhancing the immune system in cultivated organisms.</p> <p>4. Presentation of the currently identified diseases and pathological changes in cultivated invertebrates, and their consequences for aquaculture.</p> <p>5. Evaluation of health and fitness of cultivated invertebrates using the latest diagnostic tools.</p> <p>6. Epizootic, zocenosis, toxic poisoning (shellfish poisoning).</p> <p>7. Estimation of the usefulness of pathological changes as indicators of environmental pollution.</p> <p>8. Health care of cultivated organisms in terms of quality and safety of end products.</p>		
Prerequisites and co-requisites	Basics of biology, ecology, biochemistry, physiology and genetics of aquatic invertebrates		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final test	51.0%	100.0%
Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>A.1. Characteristics of the condition called complete body health and various divergences from this condition, which result in damage of a body structure or function.</p> <p>A.2. Definition of a disease and pathogen; stress as a pathogen.</p> <p>A.3. Mechanism of the immune response in invertebrates. Techniques for enhancing the immune system in cultivated organisms.</p> <p>A.4. Presentation of the currently identified diseases and pathological changes in cultivated invertebrates, and their consequences for aquaculture.</p> <p>A.5. Evaluation of health and fitness of cultivated invertebrates using the latest diagnostic tools.</p> <p>A.6. Epizootic, zocenosis, toxic poisoning (shellfish poisoning).</p> <p>A.7. Estimation of the usefulness of pathological changes as indicators of environmental pollution.</p> <p>A.8. Health care of cultivated organisms in terms of quality and safety of end products.</p> <p>none</p>	
Example issues/ example questions/ tasks being completed	none		
Work placement	Not applicable		

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