

**Subject card**

<b>Subject name and code</b>	Fish Diseases and Welfare - lecture, PG_00201292						
<b>Field of study</b>	Aquaculture – Business And Technology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to practical vocational preparation		
<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>			credit		
<b>Conducting unit</b>	Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	Subject supervisor		dr hab. Leszek Rolbiecki				
	Teachers						
<b>Lesson types</b>	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						
<b>Learning activity and number of study hours</b>	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
<b>Subject objectives</b>	This course is designed to familiarize students with the causes and effects of fish diseases of various etiologies; to familiarize with diagnostic techniques, prevention and therapy in fish aquaculture; to familiarize with fish parasitic diseases and their prevention and control.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKWAL3_W06] has an advanced understanding of techniques, research methods and tools used in aquaculture	Student knows and discusses techniques, research methods and tools used in fish disease diagnosis.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[AKWAL3_W03] has an advanced understanding of 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	Student knows and understands conceptual categories and terminology related to diseases fish, as well as concepts with direct reference to practical applications this knowledge in fish farming.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense	Student can select and use available sources of information and understand the literature on fish health and welfare.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
	[AKWAL3-K04] is ready to identify and recognize dilemmas connected with the profession and understands the need to improve professional competence	Student is ready to identify and recognize dilemmas related to performing the profession of a fish farming in the future and understands the need to improve professional competences.	[SK1] oral statement/conversation/ discussion [SK4] test/exam - oral or written
	[AKWAL3-W12] knows and understands the role of aquaculture in the modern economy and its impact on the natural environment	Student knows and understands the role of fish health in the modern economy and its impact on the natural environment.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
Subject contents	Basic concepts of fish welfare and diseases, factors causing diseases in fish under natural and farmed conditions, infectious, parasitic, environmental and functional diseases, fish diseases in aquaculture, methods of preventing and treating fish diseases, regulations and laws on fish health and welfare in Poland and the EU.		
Prerequisites and co-requisites	-		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written test	51.0%	100.0%
Recommended reading	Basic literature	1. Antychowicz J., 2008. Choroby ryb śródlądowych. PWRiL, Warszawa. 2. Leatherland J.F., Woo P.T.K., red., 2010. Fish diseases and disorders. Vol. 2, Non-infectious disorders. CABI Publishing, Wallingford 3. Prost M., 1989. Choroby ryb. PWRiL, Warszawa. 4. Woo P.T.K., red., 2006. Fish Diseases and disorders. Vol. 1, Protozoan and metazoan infections. CABI Publishing, Wallingford. 5. Woo P.T.K., Bruno D.W., red., 2011. Fish diseases and disorders. Vol. 3, Viral, bacterial and fungal infections. CABI Publishing, Wallingford.	
	Supplementary literature	1. Grabda J., 1981. Zarys parazytologii ryb morskich. PWN, Warszawa. 2. Jara Z., 1999. Chodyniecki A. Icthiopatologia. Wydawnictwo Akademii Rolniczej we Wrocławiu, Wrocław.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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