University of Gdańsk

Subject card

Subject name and code	Fish Diseases and Welfare - lecture, PG_00201292		
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	3	ECTS credits	1.0
Learning profile	practical	Assessment form	credit
Conducting unit	Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Leszek Rolbiecki	
	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

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.

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<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[AKWAL3-W12] knows and understands the role of aquaculture in the modern economy and its impact on the natural environment</td><td>Student knows and understands the role of fish health in the modern economy and its impact on the natural environment.</td><td>[SW4] test/exam - oral or written
[SW1] oral statement/ conversation/discussion</td></tr>
<tr><td>[AKWAL3-K04] is ready to identify and recognize dilemmas connected with the profession and understands the need to improve professional competence</td><td>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.</td><td>[SK1] oral statement/conversation/ discussion
[SK4] test/exam - oral or written</td></tr>
<tr><td>[AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense</td><td>Student can select and use available sources of information and understand the literature on fish health and welfare.</td><td>[SU1] oral statement/conversation/ discussion
[SU4] test/exam - oral or written</td></tr>
<tr><td>[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</td><td>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.</td><td>[SW4] test/exam - oral or written
[SW1] oral statement/ conversation/discussion</td></tr>
<tr><td>[AKWAL3_W06] has an advanced understanding of techniques, research methods and tools used in aquaculture</td><td>Student knows and discusses techniques, research methods and tools used in fish disease diagnosis.</td><td>[SW4] test/exam - oral or written
[SW1] oral statement/ conversation/discussion</td></tr>
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<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>-</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>written test</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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.</td></tr>
<tr><td>Supplementary literature</td><td>1. Grabda J., 1981. Zarys parazytologii ryb morskich. PWN, Warszawa.
2. Jara Z., 1999. Chodyniecki A. Ichtiopatologia. Wydawnictwo Akademii Rolniczej we Wrocławiu, Wrocław.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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