

**Subject card**

<b>Subject name and code</b>	Aquaristics and fishing - lectures, PG_00054109						
<b>Field of study</b>	Aquaculture – Business And Technology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2024/2025		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>					
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish not applicable		
<b>Semester of study</b>	1	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	practical	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Akwakultury -> Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr inż. Marcin Kuciński				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	<b>Additional information:</b> Discussion,  Problem-solving,  Lecture with a multimedia presentation.						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		10.0		5.0	30
<b>Subject objectives</b>	<ol style="list-style-type: none"> <li>1. Introducing students to the basics of breeding aquarium plants and animals, both marine and freshwater,</li> <li>2. Introducing students to the techniques of breeding and feeding exotic aquarium fish species,</li> <li>3. Introducing students to the basic techniques of freshwater and marine angling,</li> <li>4. Presenting the social and economic significance of angling, as well as identifying the opportunities, challenges, and threats associated with managing open waters for angling purposes.</li> </ol>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKWAL3-K04] is ready to identify and recognize dilemmas connected with the profession and understands the need to improve professional competence	Students are able to identify and recognize the dilemmas related to their professional activities in future and understand the necessity of life-long learning in their chosen discipline.	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
	[AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense	Students apply the basic research techniques and technological processes related to the use of environmental elements for practical purposes.	[SU1] oral statement/conversation/discussion [SU4] 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	Students understand the economic and social significance of aquaristics and fishing. They perceive the opportunities, challenges, and threats arising from running aquarium breeding operations and managing open waters for fishing purposes. Students know and understand the role of recreational use of fish in the modern economy and its impact on the natural environment.	[SW4] test/exam - oral or written
	[AKWAL3_W06] knows and discusses techniques, research methods and tools used in aquaculture	The student knows and discusses techniques, research methods and tools used in aquaristics and fishing.	[SW4] test/exam - oral or written
	[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	Student know and understand the conceptual categories and terminology regarding the biological basis of breeding aquatic organisms, as well as concepts directly related to the application of this knowledge in aquaristics and fishing	[SW4] test/exam - oral or written
	[AKWAL3_W01] knows and understands the relationship between the achievements in the selected fields of science and disciplines of natural sciences, and the possibility of their application in socio-economic life	Student know and understand the relationships between the achievements of selected fields of science and natural sciences, and the possibility of using them in aquaculture and fishing.	[SW4] test/exam - oral or written
Subject contents	<ol style="list-style-type: none"> <li>1. basic information in the field of aquaristics: breeding conditions for domestic and exotic organisms</li> <li>2. technical equipment in aquarium cultures: types of tanks, water heating and purification devices</li> <li>3. principles of breeding organisms in aquariums: basic species of animals and plants grown in aquariums</li> <li>4. marine and freshwater aquariums</li> <li>5. care and maintenance of fish, invertebrates and aquarium plants</li> <li>6. reproduction of aquarium organisms</li> <li>7. prevention and treatment of aquarium fish</li> <li>8. basic knowledge of fishing</li> <li>9. fishing methods in sea and freshwater fishing</li> <li>10. fishing and fish species protection</li> </ol>		
Prerequisites and co-requisites	Basic knowledge in the field of fish biology		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Obserwacja	51.0%	25.0%
	Test	51.0%	75.0%
Recommended reading	Basic literature	- Skrzypecka J., Skrzypecki T. 2002. Akwarium morskie. Wyd. Hoża.  - Schliewen U. Ryby akwariowe od A do Z, wyd. Delta W-Z. - Dreyer S., Keppler R. 2000. Akwarium słodkowodne. Wyd. Oficyna wydawnicza MULTICO. - Zukał R., Rataj K. 1973r., "Ryby i rośliny akwariowe", wyd. PWRiL, Warszawa - Kahl W., Kahl B., Vogt D., 1997r., "Atlas ryb akwariowych", wyd. Wyd. Delta W-Z, Warszawa - Paruzel A. 2014. Wędkarstwo polskie, Podręczny poradnik. Wyd. Publicat. - Wilson J. 2013. 1001 porad wędkarskich. Wyd. Bellona. - Gollner A. 2014. Wędkarstwo dla początkujących i zaawansowanych. Wyd. Delta W-Z.	
	Supplementary literature	- Specialized journals: Nasze akwarium, Wędkarski świat, Wiadomości wędkarskie, Wędkarz polski.	
	eResources addresses	Adresy na platformie eNauczenie: ATC-WOiG-AKWA-L3DZ-(2024/2025) Akwarystyka i Wędkarstwo - Moodle ID: 8029 <a href="https://mdl.ug.edu.pl/course/view.php?id=8029">https://mdl.ug.edu.pl/course/view.php?id=8029</a>	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Classification and characteristics of aquariums based on their purpose,</li> <li>2. Dutch aquariums,</li> <li>3. Essential technical equipment for aquarium breeding,</li> <li>4. Principles of designing and setting up freshwater and marine aquariums,</li> <li>5. Basic species of animals and plants bred in aquariums,</li> <li>6. Care and maintenance of aquarium organisms,</li> <li>7. Breeding aquarium fish and the first food for hatchlings,</li> <li>8. Legal and economic conditions of fishing in Poland,</li> <li>9. Overview of basic fishing gear and preparation of fishing setups for various fishing techniques,</li> <li>10. Natural baits and fishing groundbaits,</li> <li>11. Artificial lures, imitations of fish and aquatic invertebrates.</li> </ol>		
Work placement	Not applicable		

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