University of Gdańsk

Subject card

Subject name and code	Aquaristics and Fishing - laboratory classes, PG_00201235		
Field of study	Aquaculture – Business And Technology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
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	1	Language of instruction	Polish
Semester of study	1	ECTS credits	1.0
Learning profile	practical	Assessment form	credit
Conducting unit	Laboratory of Aquaculture -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Ligia Panasiak	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	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	2.0	8.0	25

Subject objectives

1. Introducing students to the basics of breeding aquarium plants and animals, both marine and freshwater,
2. Introducing students to the techniques of breeding and feeding exotic aquarium fish species,
3. Introducing students to the basic techniques of freshwater and marine fishing,
4. Presenting the social and economic significance of fishing, as well as identifying the opportunities, challenges, and threats associated with managing open waters for fishing purposes.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[AKWAL3-U06] can apply basic techniques and technological processes related to the use of elements of the environment for practical purposes	Students apply the basic techniques and technological processes related to the use of elements of the environment for the purpose of breeding aquarium fish and fishing.	[SU2] presentation/project/paper/ report
[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.	[SU2] presentation/project/paper/ report
[AKWAL3-U12] can interact and work in a group, and assume different roles	Students are able to interact and work in a group, taking on a variety of roles during activities related to fishing and aquarium care.	[SU2] presentation/project/paper/ report
[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 perceive dilemmas related to the future profession related to the recreational use of fish and understand the need to improve professional competences.	[SK8] observation of student's independent or team work

Subject contents

1. Types of aquaria: a practical introduction to aquaristics.

2. Freshwater aquarium project: selection of plants, fish species and equipment.

3. Care and maintenance of aquatic organisms in practice: feeding, therapeutic and disinfectant baths.

4. Breeding techniques for aquarium fish and first food for fry.

5. An overview of the fishing gear.

6. Preparation of fishing sets taking into account various techniques of fishing.

7. Natural bait, groundbait.

8. Artificial fishing lures, imitations of fish and aquatic invertebrates.

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
Designing an aquarium project along with cost estimation	51.0%	50.0%
Presentation with a written report	51.0%	50.0%

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. Zukal 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 zaawanasowanych. Wyd. Delta W-Z.
	Supplementary literature	Specialized journals: Nasze akwarium, Wędkarski świat, Wiadomości wędkarskie, Wędkarz polski.
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Classification and characteristics of aquariums based on their purpose, 2. Dutch aquariums, 3. Essential technical equipment for aquarium breeding, 4. Principles of designing and setting up freshwater and marine aquariums, 5. Basic species of animals and plants bred in aquariums, 6. Care and maintenance of aquarium organisms, 7. Breeding aquarium fish and the first food for hatchlings, 8. Legal and economic conditions of fishing in Poland, 9. Overview of basic fishing gear and preparation of fishing setups for various fishing techniques, 10. Natural baits and fishing groundbaits, Artificial lures, imitations of fish and aquatic invertebrates.	
Work placement	Not applicable	

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