

1. Field of study		Aquamatics - Interdisciplinary Management of Water Environments		
2. Faculty Faculty of Natural Sciences		Faculty of Natural Sciences		
3.	Academic year of entry	2025/2026 (winter term)		
4.	Level of qualifications/degree	second-cycle studies		
5.	Degree profile	general academic		
6.	Mode of study	full-time		
7.	General information about the	module		
Module name		Fish resources, fishing and aquaculture		
Module code		AQ_010		
Number of the ECTS credits		6		
Language of instruction		English		
Purpose and description of the content of education		The subject is designed to form students a systematic approach to fish stocks, the proper application of various fishing technologies, the importance and possibilities of aquaculture. Students will be able to assess the fish resources of water bodies, choose the proper fishing method equipment and fishing systems, evaluate the habits of the fish caught and the peculiarities of fishing in different conditions, will be able to predic the necessary aquaculture system and elements, the biotechnology of farmed fish. Students will be able to work practically with closed aquaculture systems, use modern fishing tools in various water bodies, conduct sports fishing competitions or organize recreational fishing.		
List of modules that must be completed before starting this module (if necessary)		not applicable		

8.	Learning	outcomes of the module		
	Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)
01		Able to assess fish stocks in a water body.	AQ2_W01	3
			AQ2_W02	3
02		Able to describe in detail the importance of fish stocks, the principles of their protection and rational use.	AQ2_W04	3
			AQ2_W06	3
03		Able to explain the specifics and problems of various types of fishing.	AQ2_U01	3
			AQ2_U02	3
			AQ2_U04	4
04		Able to identify the most commonly caught fish, describe the characteristics of their life and behavior.	AQ2_U01	3
			AQ2_U03	3
			AQ2_U04	4
05		Able to describe fishing methods, conditions of their application and equipment, is able to apply them in practice.	AQ2_U05	3
			AQ2_U07	3



06	Able to describe fishing methods, conditions of their application, and equipment, can apply them in practice.	AQ2_U04	3
		AQ2_U06	4
07	Able to explain the differences between types of aquaculture and describe the characteristics of varieties and/or species	AQ2_U04	3
	of aquatic animals and plants grown in aquaculture systems.	AQ2_U06	4
08	Able to describe the devices used for growing aquatic animals and plants in aquaculture systems, their purpose and	AQ2_U06	3
	needs.	AQ2_U08	3
09	Explains the methods and tools used for breeding and cultivating aquatic animals and plants, their advantages and	AQ2_K01	3
	disadvantages.	AQ2_K03	3

). Methods of conducting classes		
Code	Category	Name (description)
a01	Lecture methods / expository methods	Formal lecture/ course-related lecture a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided
c06	Demonstration methods	Demonstration-imitation a presentation of a model way of performing specific activities accompanied by a commentary; it aims at triggering imitation activities in an individual or in a group of participants observing the activities of the person teaching the course until the right habit is formed through regular exercise; the demonstration-imitation method is combined with a physical practice of activities/behaviours
d03	Programmed learning methods	Working with another teaching tool e.g. using websites in any way or according to the rules set by the teacher; or making use of other subject-specific tools
e01	Practical methods	Laboratory exercise / experiment [also conducted as fieldwork] a method of practical application of knowledge; implemented in three stages: the recognition of a problem induced by the task content, the formulation of the problem and the attempt to solve it accompanied by the assessment of the effects; the goal is to acquire skills, abilities and habits, and to consolidate the acquired knowledge so that it becomes operational; the laboratory method assumes greater independence of learners than carrying out an experiment

10.	).  Forms of teaching					
	Code	Name	Number of hours	Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
01		lecture	30	exam	01, 02, 03, 04, 05	a01
02		laboratory classes	30	course work	06, 07, 08, 09	c06, d03, e01

11.	The student's work, apart from participation in classes, includes in particular:			
	Code	Category	Name (description)	Is it part of the BUNA?
a02		Preparation for classes	Literature reading / analysis of source materials reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class	No
a03		Preparation for classes	Developing practical skills activities involving the repetition, refinement and consolidation of practical skills, including those	No



		developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)	
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class	No
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes	Yes

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <u>https://usosweb.us.edu.pl</u>.