

Module code	M_WE_SEM2 PW 1A/2A AKWA
Field of study	Veterinary medicine
Module name, also the name in English	Aquaristics Akwarystyka
Language of instruction	English
Module type	Optional
Level of studies	Long-cycle master's degree studies
Form of study	Full-time
Year of study in the field of study	I
Semester of study in the field of study	2
ECTS credits, divided into contact/non-contact hours	1 (0.6/0.4)
Academic title/degree, name of the person responsible for the module	Dr. Krzysztof Puk
Unit teaching the module	Sub-Department of Fish Diseases and Biology
Module objective	Knowledge of the legal basis for the breeding and marketing of animals kept in aquariums and familiarisation with the construction and functioning processes of an aquarium. General knowledge of biotope aquariums.
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1. Has knowledge of general regulations pertaining to the breeding and marketing of animals kept in aquariums.
	K2. Has a basic knowledge of both the construction and functioning of a biotope aquarium to ensure welfare of animals and of human health risks associated with aquarium keeping.
	Skills:
	S1 The student knows how to safely set up biotope aquariums and they know basic principles of research/prophylaxis/treatment.
	Social competences:
Sc1. Understands the need to care for the welfare of animals (fish and ornamental invertebrates) and the need to continue to learn about them.	
Prerequisites and additional requirements	Basic information concerning the secondary school biology curriculum.
Module program content	Exercise 1. Aquaristics - History of Aquaristics. Selected legal regulations concerning the breeding and marketing of animals kept in aquariums. (2 hrs.) Exercise 2. Biotope aquarium - Africa. (2 hrs.) Exercise 3. Biotope aquarium - South America. (2 hrs.) Exercise 4. Biotope aquarium - Asia. (2 hrs.) Exercise 5. Coldwater Aquarium. (2 hrs.) Exercise 6. Principles of aquarium fish testing. Prevention of diseases caused by adverse environmental factors. Generally available preparations for the treatment of aquarium fish. (2 hrs.) Exercise 7. Biology and aquarium husbandry of selected invertebrate and vertebrate animal species. (2 hrs.)

List of core and supplementary literature	<p>Skomal G. Freshwater Aquarium 2nd Edition. 2005 Wiley Publishing.</p> <p>Noga E.J. Fish Disease: Diagnosis and Treatment. 2010 Wiley-Blackwell, Ames, Iowa</p> <p>Wally Kohl, Burkard Kohl, Dieter Vogt: Atlas of aquarium fish.</p>		
Planned forms/activities/teaching methods	<p>Laboratory exercises, studying recommended reading, preparing for class, preparing a presentation on a given topic, demonstration, consultation.</p> <p>Working with a microscope (preparing slides, viewing living and fixed organisms).</p>		
Verification methods and ways of documenting the achieved learning outcomes.	<p>Knowledge. Exercises, presentations/projects. It is necessary to pass all exercises (i.e. attendance at all classes - absences from classes must be passed at a date agreed with the teacher). Final Test. Documentation: list with grades and question sheet with grades.</p> <p>Skills. Active participation in classes (it is necessary to complete all exercises, i.e. attendance at all classes - absences from classes must be passed/made up during the consultations or at another time agreed with the teacher) - a prerequisite for passing the final test. Documentation: attendance list.</p> <p>Competences. Active participation in classes (attendance at all classes - a prerequisite for passing the final test). Documentation: attendance list.</p>		
ECTS credits	CONTACT		
		<i>Hours</i>	<i>ECTS credits</i>
	practical classes	14	0,5
	Consultations	1	0,05
	credit pass/resit exam	2	0,05
	TOTAL contact hours	16	0,6
	NON-CONTACT		
	preparation for classes	3	0,1
	preparing a project - a multimedia presentation	3,5	0,15
	literature study	3,5	0,15
	TOTAL non-contact hours	10	0,4
	attendance at practical classes	14	0,5
	Consultations	1	0,05
	getting credit for classes	2	0,05
TOTAL with direct involvement of the teacher	16	0,6	
Relation of module learning outcomes to course learning outcomes.	<p>K1-C_W2, B_W7</p> <p>K2-C_W3, B_W9</p> <p>S1_BU13, BU20, BU21</p> <p>Sc1_K5</p>		

<p>Elements and values affecting the final grade</p>	<p>Final credit (20 question test). Grading scale applicable for final credit: 5.0 (19-20 correct answers), 4.5 (17-18), 4.0 (15-16), 3.5 (13-14), 3.0 (11-12), 2.0 (<11). The final grade for the course consists of 100% of the final test score (a passing grade is required).</p>
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