

**Subject card**

<b>Subject name and code</b>	Application of Products from Aquaculture - laboratory classes, PG_00201267						
<b>Field of study</b>	Aquaculture – Business And Technology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2028/2029		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to practical vocational preparation		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	6	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	practical	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Justyna Kobos				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
<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	1.0	9.0	25		
<b>Subject objectives</b>	The aim of the classes is to familiarize students with direct and indirect products from aquaculture						
<b>Learning outcomes</b>	<b>Course outcome</b>	<b>Subject outcome</b>		<b>Method of verification</b>			
	[AKWAL3-K04] is ready to identify and recognize dilemmas connected with the profession and understands the need to improve professional competence	identifies and perceives the challenges and dilemmas of practicing a profession using aquaculture products in the future and understands the need to improve professional competence		[SK1] oral statement/conversation/discussion			
	[AKWAL3-U06] can apply basic techniques and technological processes related to the use of elements of the environment for practical purposes	Knows and discusses techniques, research methods and tools used in aquaculture		[SU1] oral statement/conversation/discussion			
	[AKWAL3-U12] can interact and work in a group, and assume different roles	Is able to interact and work in a group, taking on different roles		[SU1] oral statement/conversation/discussion			
	[AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense	can interact and work in a group, taking on different roles		[SU1] oral statement/conversation/discussion			
<b>Subject contents</b>	<p>The problems of the exercises are related to the issues:</p> <ol style="list-style-type: none"> <li>1. Raw materials obtained from commercially farmed marine and freshwater organisms.</li> <li>2. Parameters affecting the quality and use of products from aquacultures.</li> <li>3. Use of products from aquaculture with low added value.</li> <li>4. Enhancing the value of fishery and aquaculture products</li> </ol>						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	completion of the final assignment – a project or a presentation	51.0%	50.0%
	determining the final mark on the basis of the partial marks awarded during the semester	51.0%	50.0%
Recommended reading	Basic literature	Lekang O-I, 2013, Aquaculture Engineering. Wiley-Blackwell	
		Tucker C.S (red.), 2019, Aquaculture: Farming Aquatic Animals and Plants. Wiley	
		Julien R. Stevens, Richard W. Newton, Michael Tlusty, David C. Little. 2018. The rise of aquaculture by-products: Increasing food production, value, and sustainability through strategic utilisation, Marine Policy, Volume 90 (115-124), <a href="https://doi.org/10.1016/j.marpol.2017.12.027">https://doi.org/10.1016/j.marpol.2017.12.027</a> .	
	Supplementary literature	Recent scientific articles on the topics covered in the classes.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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