

Subject card

Subject name and code	High Value-added Products - laboratory classes, PG_00201259						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	practical		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Hanna Mazur-Marzec				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		2.0		18.0	50
Subject objectives	Acquiring practical skills in the use of aquaculture to obtain products with high added value						
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		is able to apply basic techniques used in isolation and chemical analyzes of natural products obtained from aquaculture		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU6] demonstration of practical skills		
Subject contents	- Optimization of the production of compounds with potential biotechnological applications by aquatic organisms - Application of biochemical methods in assessing the suitability of natural products - Application of chemical methods for extraction, isolation and analysis of natural products						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	test		51.0%		34.0%		
	- completion of final work - completion of specific practical work		51.0%		33.0%		
	completing a final paper - conducting research and presentation their results		51.0%		33.0%		
Recommended reading	Basic literature		1. Garth L. Fletcher, Matthew L. Rise, 2012. Aquaculture biotechnology. John Wiley & Sons, Ltd. 2. Se-Kwon Kim., 2015. Handbook of Marine Biotechnology. Springer 3. Other materials recommended by the employee conducting the classes				
	Supplementary literature		Other materials recommended by the employee conducting the classes				
	eResources addresses						

Example issues/ example questions/ tasks being completed	Isolation and analysis of chemical natural products obtained from aquaculture
Work placement	Not applicable

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