University of Gdańsk

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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