University of Gdańsk

Subject card

Subject name and code	Impact of aquaculture on the environment - seminar, PG_00075896		
Field of study	Aquaculture – Business And Technology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
Education level	undergraduate studies	Subject group	
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	3.0
Learning profile	practical	Assessment form	
Conducting unit	Pracownia Bioróżnorodności i Funkcjonowania Bentosu -> Katedra Ekologii Morza -> Faculty of Oceanography and Geography		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Urszula Janas	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	45.0	0.0	0.0	0.0	0.0	45

E-learning hours included: 0.0

Additional information:
Case studies, work with scientific articles, team work, conversational lecture

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	45	10.0	20.0	75

Subject objectives

The purpose of the course is to familiarize the student with the topic of the impact of aquaculture on the environment. During the course, the student will gain knowledge of the need to develop aquaculture in a sustainable manner.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[AKWAL3-W12] knows and understands the role of aquaculture in the modern economy and its impact on the natural environment	He or she knows and understands the impact of aquaculture on the natural environment	[SW3] text preparation/written work
[AKWAL3-U12] can interact and work in a group, and assume different roles	He or she can interact and work in a group, taking on different roles while working on projects and case studies	[SU2] presentation/project/paper/ report
[AKWAL3-U07] can come to the right conclusions on the basis of available data	He or she is able to make correct conclusions on the basis of available data on the environmental impacts of aquaculture	[SU2] presentation/project/paper/ report
[AKWAL3-K06] is ready to think and act in an entrepreneurial manner in terms of actions taken, including social initiatives, cooperation for environmental sustainability and sustainable development	He or she is willing to think and act to preserve the ecological balance and sustainable development of aquaculture	[SK2] presentation/project/paper/ report

Subject contents	Sustainable development of aquacultures Threats to the natural environment and ecological balance, among others, eutrophication, oxygen deficiency, alien species, pharmaceuticals and other compounds used in aquaculture, diseases transmitted to natural populations, loss of land for other activities; Benefits of aquaculture development, among others, production of food and other products necessary for humans; Assessment of the impact of aquaculture on the aquatic environment; Biomonitoring of the environment in the vicinity of aquaculture; Environmental impact assessments of aquaculture projects, forecasting the impact of future aquaculture projects on the environment, using the DPSiR and Life Cycle Assessment (LCA) model and Nature Based Solutions, among others.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
presentation 2 /project	51.0%	35.0%
presentation 1 /project	51.0%	35.0%
written work	51.0%	30.0%

Recommended reading	Basic literature	Gray J., Elliott M., 2010, Ecology of Marine sediments from science to management, Oxford University Press James S. D. 2009, Aquaculture production and biodiversity conservation, BioScience 59 (1): 2738. Schultz-Zehden A, Matczak M. (eds.), 2012, Compendium An Assessment of Innovative and Sustainable Uses of Baltic Marine Resources, Instytut Morski, Gdańsk, 262 str.
	Supplementary literature	Zimna J., Przedrzymirska J., Matczak M., Zaucha J., 2013, Mapa Drogowa rozwoju polskich obszarów nadmorskich opartego na czerpaniu pożytków z innowacyjnych form wykorzystania zasobów Bałtyku, Instytut Morski, Gdańsk, 68 str
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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