University of Gdańsk

Subject card

Subject name and code	Social and Economic Aspects of Aquaculture - seminar, PG_00201320		
Field of study	Aquaculture – Business And Technology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	2.0
Learning profile	practical	Assessment form	credit
Conducting unit	Laboratory of Ecophysiology and Bioenergetics -> Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Joanna Hegele-Drywa	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

E-learning hours included: 0.0

Additional information:

seminar, presentation, discussion

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

Learning and understanding the interaction between aquaculture and society, the economy, culture and the environment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[AKWAL3-U07] can come to the right conclusions on the basis of available data	student is able to make correct inferences based on data concerning the impact of aquaculture on society and the economy	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[AKWAL3-W12] knows and understands the role of aquaculture in the modern economy and its impact on the natural environment	student knows and understands social and economic role of aquaculture in the modern economy and its impact on the natural environment	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[AKWAL3_W01] has an advanced understanding of the links between achievements in selected fields of science and natural science disciplines, and their potential applications in socio-economic life	student knows and understands the relationship between the achievements of natural sciences and the possibility of their use for economic activity while taking into account the social and economic conditions for the realisation of such activity	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[AKWAL3-U12] can interact and work in a group, and assume different roles	student can interact and work in a group, performing various functions within the team, including managerial roles	[SU8] observation of student's independent or team work

Subject contents	1. Socio-economics, socio-economic research and its relevance to the planning of new aquaculture investments. 2. Socio-economic impact categories (natural capital, human capital, physical capital, social capital and financial capital) and methods used to gain information in each category. 3.Socio-economic and environmental dimensions of shrimp aquaculture in different countries. 4. Socio-economic and environmental dimensions of microalgal and seaweed aquaculture in different countries. 5. Socio-economic and environmental dimensions of aquaponics in different countries. 6. Estimating the socio-economic impact of aquaculture using multi-criteria analysis using the analytical hierarchy process.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
projects or presentations	51.0%	80.0%
correct completion of the worksheets	51.0%	10.0%
activity during clases	51.0%	10.0%

Recommended reading

Basic literature	Bhari B., Visvanathan C., 2018. Sustainable Aquaculture: Socio-Economic and Environmental Assessment. In: Hai F., Visvanathan C., Boopathy R. (eds) Sustainable Aquaculture. Applied Environmental Science and Engineering for a Sustainable Future. Springer, Cham Bunting S., 2013. Principles of Sustainable Aquaculture: Promotion Social, Economic and Environmental Resilience. Routledge Krause G., Buck B.H., Breckwoldt A., 2019. Socio-economic Aspects of Marine Bivalve Production. In: Smaal A., Ferreira J., Grant J., Petersen J., Strand Ø. (eds) Goods and Services of Marine Bivalves. Springer, Cham Krause G., Mikkelsen E., 2017. The Socio-economic Dimensions of Offshore Aquaculture in a Multi-use Setting. In: Buck B., Langan R. (eds) Aquaculture Perspective of Multi-Use Sites in the Open Ocean. Springer, Cham
Supplementary literature	Andalecio M.N., 2010. Multi-criteria decision models for management of tropical coastal fisheries. A review. Agronomy for Sustainable Development, Springer Verlag/EDP Sciences/INRA, 2010, 30 (3), 10.1051/agro/2009051.hal-00886514 Burbridge P., Hendrick V., Roth E., Rosenthal H., 2001. Social and economic policy issues relevant to marine aquaculture. J. Appl. Ichthyol. 17, 194-206. Neiland A.E., Shaw S.A., Bailly D., 1991. The social and economic impact of aquaculture: a European review. Aquaculture and Environment 16, 469-472. Nakyewa P., Akello F., Otim R., Ndhokero J., Mbilingi B., Akumu J., Ocaya W., MusambyaM., Lanta D., Wawa I., Adhiambo S.C., Okwara J., 2019.Socio-economic Aspects of Recirculating Aquaculture Systems (RAS) and Membrane Bioreactor (MBR) Technologies in the Lake Victoria Basin.
eResources addresses	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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