University of Gdańsk

Subject card

Subject name and code	History of Development of Aquaculture - field classes, PG_00201193		
Field of study	Aquaculture – Business And Technology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	2.0
Learning profile	practical	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr Ligia Panasiak	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	25.0	0.0	0.0	0.0	25
	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	25	2.0	23.0	50

Subject objectives	The aim of the subject is to acquaint students with the history and development of global aquaculture, as well as examples of aquaculture in the Pomeranian region.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	Conducting a discussion on the achievements of natural sciences and their utilization in the field of aquaculture.	[SW1] oral statement/ conversation/discussion
	[AKWAL3-U01] can plan and perform simple tasks under supervision or independently in the analysis of the aquatic environment, using appropriate methods of description and identification	Performing and planning tasks independently or under supervision in the analysis of the water environment	[SU1] oral statement/conversation/ discussion
	[AKWAL3-K01] is ready to assess the risks and threats stemming from working in the laboratory and is responsible for the equipment and teaching materials entrusted to them and for the safety of their own work and that of others	Conscious and safe work in the laboratory, responsibility for the equipment and educational materials used	[SK1] oral statement/conversation/ discussion
	[AKWAL3-U10] can prepare an oral presentation of scientific nature or a short description of research done during classes, using appropriate scientific terminology, in Polish or English	Preparing a presentation in Polish/ English on a given topic, including scientific terminology	[SU2] presentation/project/paper/ report
	[AKWAL3_W02] has an advanced understanding of chemical, biological, physical processes and phenomena, identifies them, analyses their mechanisms in relation to the aquatic environment, and is aware of the connections between various natural disciplines	Discussion on the processes occurring in the aquatic environment and their connections to aquaculture	[SW1] oral statement/ conversation/discussion
Subject contents	Familiarization with examples of aquaculture-related activities in the Tri-City metropolitan area. Visit to a facility producing stocking material for salmonid fish in Pomerania.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Preparation of a field trip report	51.0%	100.0%

Recommended reading	Basic literature	Biegała Z., 2014. "Sustainable development of aquaculture as an alternative future for the fish processing sector." Rocznik Samorządowy 3, 12-25. Hishamunda N., Bueno P.B., Ridler N., Yap W.G., 2009. "Analysis of aquaculture development in Southeast Asia: a policy perspective." FAO Fisheries and Aquaculture Technical Paper. No. 509. Rome, FAO, 2009, 69 pages. Rabanal H.R., 1988. "History of aquaculture." ASEAN/UNDP/FAO Regional Small-Scale Coastal Fisheries Development Project, Manila, Philippines ASEAN/SF/88/Tech. 7. Rana K.J., 2007. "Regional Review on Aquaculture Development 6. Western-European Region 2005." FAO Fisheries Circular No. 1017/6, ISSN 0429-9329. Varadi L., Szucs I., Pekar F., Blokhin S., Csavas I., 2001. "Aquaculture development trends in Europe." In: Subasinghe R.P., Bueno P.B., Phillips M.J., Hough C., McGladdery S.E., Arthur J.R. (eds.) Aquaculture in the Third Millennium - Technical Proceedings of the Conference on Aquaculture in the Third Millennium, pp. 397416. Bangkok, Thailand. 2025 February 2000. NACA, Bangkok and FAO, Rome. 471 pages. General literature, studies, and national reports on the cultivation of aquatic organisms.
	Supplementary literature	Bostock, J., McAndrew, B., Richards, R., Jauncey, K., Telfer, T., Lorenzen, K., ... & Corner, R. (2010). Aquaculture: global status and trends. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *365*(1554), 2897-2912.ArechavalaLopez, P., CabreraÁlvarez, M. J., Maia, C. M., & Saraiva, J. L. (2022). Environmental enrichment in fish aquaculture: A review of fundamental and practical aspects. *Reviews in Aquaculture*, *14*(2), 704-728.Ciji, A., & Akhtar, M. S. (2021). Stress management in aquaculture: A review of dietary interventions. *Reviews in Aquaculture*, *13*(4), 2190-2247.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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