

Subject card

Subject name and code	History and development of aquaculture - seminar, PG_00156205						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group				
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		dr Ligia Panasiak				
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						
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		5.0		15.0	50
Subject objectives	The aim of the course is to familiarize the student with the history and development of global aquaculture, as well as examples of aquaculture in Pomerania.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKWAL3-K04] is ready to identify and recognize dilemmas connected with the profession and understands the need to improve professional competence	Understanding and identifying dilemmas related to the profession, as well as recognizing the importance of enhancing professional competencies	[SK2] presentation/project/paper/report
	[AKWAL3-U11] can speak English at the B2 level of the Common European Framework of Reference for Languages	Communicative use of the English language and utilization of vocabulary related to aquaculture	[SU2] presentation/project/paper/report
	[AKWAL3_W01] knows and understands the relationship between the achievements in the selected fields of science and disciplines of natural sciences, and the possibility of their application in socio-economic life	Understanding and recognizing the connections between scientific and natural disciplines and their potential applications in aquaculture	[SW1] oral statement/conversation/discussion
	[AKWAL3_W02] knows and understands 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
	[AKWAL3-U12] can interact and work in a group, and assume different roles	Group work on a given topic, collaboratively developing available materials	[SU2] presentation/project/paper/report
	[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
Subject contents	[AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense	The correct selection of literature in the field of aquaculture and its proper use in preparing a presentation on a given topic	[SU2] presentation/project/paper/report
	A. Seminar:		
	A1. History of aquaculture from ancient to modern times.		
	A2. Trends in the development of contemporary aquaculture worldwide.		
	A3. Contemporary aquaculture in:		
	• Asia • North and South America • Africa • Europe		
	A4. Development and current status of aquaculture in Poland.		
Prerequisites and co-requisites	none		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	preparation of presentation	50.0%	100.0%

Recommended reading	Basic literature	Biegala Z., 2014. Sustainable development of aquaculture as an alternative future for the fish processing sector. Local Government Yearbook 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. 397-416. Bangkok, Thailand. 2025 February 2000. NACA, Bangkok and FAO, Rome. 471 pp. General literature, reports, and national studies 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. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i>, 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. <i>Reviews in Aquaculture</i>, 14(2), 704-728. Ciji, A., & Akhtar, M. S. (2021). Stress management in aquaculture: A review of dietary interventions. <i>Reviews in Aquaculture</i>, 13(4), 2190-2247.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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