

**Subject card**

<b>Subject name and code</b>	History of Development of Aquaculture - seminar, PG_00202190						
<b>Field of study</b>	Aquaculture – Business And Technology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	1	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	practical	<b>Assessment form</b>			credit		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Ligia Panasiak				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		2.0		18.0	50
<b>Subject objectives</b>	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.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[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-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	
	[AKWAL3-U14] can independently plan and initiate their lifelong learning		Independently identifies development needs, plans the learning process and takes initiatives to systematically expand knowledge and competences			[SU1] 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_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		Understanding and recognizing the connections between scientific and natural disciplines and their potential applications in aquaculture			[SW1] oral statement/conversation/discussion	

Subject contents	<p>A. Seminar:</p> <p>A1. History of aquaculture from ancient to modern times.</p> <p>A2. Trends in the development of contemporary aquaculture worldwide.</p> <p>A3. Contemporary aquaculture in:</p> <ul style="list-style-type: none"> <li>• Asia</li> <li>• North and South America</li> <li>• Africa</li> <li>• Europe A4. Development and current status of aquaculture in Poland.</li> <li>• A5. Global and EU policies in aquaculture.</li> </ul>								
Prerequisites and co-requisites	none								
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Subject passing criteria</th> <th style="width: 25%;">Passing threshold</th> <th style="width: 25%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>preparation of presentation</td> <td>51.0%</td> <td>100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	preparation of presentation	51.0%	100.0%
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Recommended reading	Basic literature	<p>Biegafa Z., 2014. Sustainable development of aquaculture as an alternative future for the fish processing sector. <i>Local Government Yearbook</i> 3, 12-25.</p> <p>Hishamunda N., Bueno P.B., Ridler N., Yap W.G., 2009. Analysis of aquaculture development in Southeast Asia: a policy perspective. <i>FAO Fisheries and Aquaculture Technical Paper</i>. No. 509. Rome, FAO, 2009, 69 pages.</p> <p>Rabanal H.R., 1988. History of aquaculture. <i>ASEAN/UNDP/FAO Regional Small-Scale Coastal Fisheries Development Project</i>, Manila, Philippines <i>ASEAN/SF/88/Tech</i>. 7.</p> <p>Rana K.J., 2007. Regional Review on Aquaculture Development 6. Western-European Region 2005. <i>FAO Fisheries Circular</i> No. 1017/6, ISSN 0429-9329.</p> <p>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.) <i>Aquaculture in the Third Millennium - Technical Proceedings of the Conference on Aquaculture in the Third Millennium</i>, pp. 397-416. Bangkok, Thailand. 2025 February 2000. NACA, Bangkok and FAO, Rome. 471 pp.</p> <p>General literature, reports, and national studies on the cultivation of aquatic organisms.</p>							
	Supplementary literature	<p>Bostock, J., McAndrew, B., Richards, R., Jauncey, K., Telfer, T., Lorenzen, K., ... &amp; Corner, R. (2010). Aquaculture: global status and trends. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i>, 365(1554), 2897-2912.</p> <p>ArechavalaLopez, P., CabreraÁlvarez, M. J., Maia, C. M., &amp; 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.</p> <p>Ciji, A., &amp; Akhtar, M. S. (2021). Stress management in aquaculture: A review of dietary interventions. <i>Reviews in Aquaculture</i>, 13(4), 2190-2247.</p>							
	eResources addresses								
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								

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