University of Gdańsk

Subject card

Subject name and code	Scientific Project Laboratory, PG_00075912						
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 Polish			
Semester of study	5		ECTS credits	3.0			
Learning profile	practical		Assessment form				
Conducting unit	Pracownia Ekofizjologii i Bioenergetyki -> Katedra Ekologii Morza -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Monika Normant-Saremba					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Additional information: Laboratory class						
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		30.0	30.0	90	
Subject objectives	Learning the rules for preparing applications for financing a research and development project related to the culture of plants and algae, invertebrates and fish, based on biological conditions, engineering, legal, socio-economic, environmental and marketing aspects.						

<table>
<tr><td>Learning outcomes</td><td>
<table>
<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[AKWAL3-W12] knows and understands the role of aquaculture in the modern economy and its impact on the natural environment</td><td>Knows and understands the role of aquaculture related to the production of various plants and algae, invertebrates and fish in the modern economy and its impact on the natural environment.</td><td>[SW2] presentation/project/paper/ report</td></tr>
<tr><td>[AKWAL3_W04] knows and understands the principles of optimization of breeding methods for aquatic invertebrates, and has acquired theoretical and practical knowledge of the diagnostic methods used</td><td>Knows and understands the principles of optimizing methods in the aquaculture of plants, algae, invertebrates and fish.</td><td>[SW2] presentation/project/paper/ report</td></tr>
<tr><td>[AKWAL3-U08] can solve standard, atypical or complex problems on the basis of acquired knowledge and data sources</td><td>Based on his knowledge and data sources is able to solve problems tasks related to aquaculture of plants and algae, invertebrates and fish.</td><td>[SU2] presentation/project/paper/ report</td></tr>
<tr><td>[AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense</td><td>Is able to select and use available sources of information on the aquaculture of plants and algae, invertebrates and fish.</td><td>[SU2] presentation/project/paper/ report</td></tr>
<tr><td>[AKWAL3-K05] student is ready to appreciate the practical application of acquired knowledge</td><td>Is ready to appreciate the practical application of acquired knowledge in the field of aquaculture of plants and algae, invertebrates and fish.</td><td>[SK2] presentation/project/paper/ report</td></tr>
</table>
</td></tr>
<tr><td>Subject contents</td><td>Learning the principles of preparation and implementation of various types of projects related to aquaculture of selected species of plants and algae, invertebrates and fish, taking into account the substantive assumptions and goal, expected results, methods used, necessary materials and equipment, research schedule, project cost estimate, etc., prepared on the basis of biological conditions and engineering and legal aspects. Classes are carried out in two of the three proposed thematic blocks (plants and algae; invertebrates; fish), selected by students.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Knowledge of the biology, ecology and physiology of farmed organisms, as well as the legal basis and socio-economic aspects of aquaculture.</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Project/ presentation block 1</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>Project/ presentation block 1</td><td>51.0%</td><td>50.0%</td></tr>
</table>
</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Publicly available and current subject literature on the methodology of conducting research and development projects, mass culture of plants and algae, invertebrates and fish, as well as legal, economic and environmental issues related to their breeding.</td></tr>
<tr><td>Supplementary literature</td><td>Publications from journals International Journal of Fisheries and Aquaculture, Aquaculture, Aquaculture Research, Aquaculture International, etc.</td></tr>
<tr><td>eResources addresses</td><td>Podstawowe
https://bobn.po.opole.pl/images/przewodniki/wnioski_grantowe_bez_tajemnic.pdf - Janus T., 2016. Janus T., 2016. Grant applications without secrets. Uniwersytet Kardynała Stefana Wyszyńskiego w Warszawie (in Polish).
Adresy na platformie eNauczanie:</td></tr>
</table>
</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Preparation of a project regarding: (1) microalgae cultivation, (2) multitrophic aquaculture, (3) culture of crossbred salmonids with improved breeding characteristics, with particular emphasis on resistance to viral diseases, (4) testing the effect of a dietary supplement on selected growth indicators in invertebrate.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.