

Subject card

Subject name and code	Information Technology in Aquaculture - laboratory classes, PG_00201232						
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 Subject group related to practical vocational preparation		
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		3.0		
Learning profile	practical		Assessment form		credit		
Conducting unit	Geographic Information System (GIS) Laboratory -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. Alicja Śniadach				
	Teachers		mgr inż. Alicja Śniadach				
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						
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		4.0		41.0	75
Subject objectives	The aim of the course is to acquire the knowledge and competencies described in the program content, which are essential for further education in the Aquaculture - Business and Technology (ABiT) program.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKWAL3-U12] can interact and work in a group, and assume different roles	Student is able to collaborate effectively in a team during exercises and projects in information technologies in aquaculture, taking on different roles and responsibilities. Contents: 2 and 6.	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[AKWAL3-U05] can apply basic statistical methods as well as algorithms and computer techniques to describe phenomena and analyze data that are typical in socio-economic activity based on natural sciences	Student is able to apply basic statistical methods and information technology techniques to describe phenomena and analyze data in the context of socio-economic activities based on the natural sciences, with particular focus on aquaculture. Contents: 1-6.	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[AKWAL3_W06] has an advanced understanding of techniques, research methods and tools used in aquaculture	Studet knows and discusses techniques, research methods, and tools used in Information Technologies in aquaculture. Contents: 1-6.	[SW4] test/exam - oral or written
	[AKWAL3-U13] can independently organize their work and critically assess progress	Student is able to independently plan and organize tasks in exercises on information technologies in aquaculture and critically evaluate their progress and level of advancement.Contents: 1-6.	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[AKWAL3-K05] student is ready to appreciate the practical application of acquired knowledge	Student is able to identify and assess the practical applications of acquired knowledge in information technologies in aquaculture.Contents: 1-6.	[SK2] presentation/project/paper/report [SK4] test/exam - oral or written
Subject contents	1. Office software suites. 2. Flowcharts - project during classes. 3. File formats used in data analysis and introduction to databases. 4. Spreadsheet, spreadsheet functions. 5. Data preparation and statistical data processing. 6. Data visualization, including spatial data.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	51.0%	50.0%
	practical tasks	51.0%	50.0%
Recommended reading	Basic literature	Przeździecki K., Sikorski W., Treichel W., Technologie informacyjne dla studentów, 2017, Wyd. Witkom.	
	Supplementary literature	Ścieżor T., Technologia Informacyjna dla studentów Inżynieria Środowiska Politechniki Krakowskiej, 2016, Politechnika Krakowska. Gurbiel E. i inni, Technologia informacyjna.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		