

Subject card

Subject name and code	Information technology in aquaculture - laboratory exercises, PG_00054119						
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		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				
Conducting unit	Geographic Information System (GIS) Laboratory -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Maciej Markowski				
	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						
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		15.0		30.0	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-U13] can independently organize their work and critically assess progress		Student can independently organize their work and critically assess its progress. Contents: 1-6.		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written		
	[AKWAL3-U12] can interact and work in a group, and assume different roles		Student can collaborate and work in a group, taking on various roles. Contents: 2 and 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 ready to appreciate the practical application of acquired knowledge. Contents: 1-6.		[SK2] presentation/project/paper/report [SK4] test/exam - oral or written		
	[AKWAL3_W06] knows and discusses 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-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 can apply basic IT techniques to describe phenomena and analyze data typical of socio-economic activities based on natural sciences, including aquaculture. Contents: 1-6.		[SU2] presentation/project/paper/report [SU4] 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
		51.0%	50.0%
		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	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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