

Subject card

Subject name and code	Information Technology in Aquaculture - lecture, PG_00201231						
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		
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		1.0		
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		dr Maciej Markowski				
	Teachers		dr Maciej Markowski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		1.0		9.0	25
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_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		Student has knowledge of the connections between advances in the natural sciences and their applications in information technologies in aquaculture, and is able to assess the potential use of these solutions in socio-economic practice. Contents: 1-7.		[SW4] test/exam - oral or written		
	[AKWAL3_W06] has an advanced understanding of techniques, research methods and tools used in aquaculture		Has knowledge of and is able to discuss techniques, research methods, and tools used in information technologies in aquaculture, assessing their applicability in research and production practice.Contents: 1-7.		[SW4] test/exam - oral or written		
	[AKWAL3-K05] student is ready to appreciate the practical application of acquired knowledge		Is able to recognize and evaluate the practical applications of acquired knowledge in information technologies in aquaculture. Contents: 1-7.		[SK4] test/exam - oral or written		

Subject contents	1. Information technology - introductory knowledge, historical overview. 2. Methods of data storage in computers. 3. Hardware and operating systems - preparing to work with data used, among others, in aquaculture. 4. Flowcharts as a method for planning and implementing research and technological processes. 5. Overview of office suites. 6. Applications for vector and raster graphics. 7. Introduction to Excel, file formats, and file-based databases. 8. Spatial data - applications, visualization, processing.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final exam	51.0%	100.0%
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		

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