

Subject card

Subject name and code	Copy Ecotoxicology in aquaculture - lectures, PG_00075869						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group				
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		2.0		
Learning profile	practical		Assessment form		exam		
Conducting unit	Laboratory of Marine Biotechnology -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Agata Błaszczyk				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		3.0		17.0	50
Subject objectives	To introduce students to the effects of anthropogenic pollution and natural substances on organisms cultured in aquaculture (from the cell to ecosystem). To understand methods of environmental risk assessment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[AKWAL3-K03] is ready to follow the ethical principles in biological research and adhere to the principles of intellectual honesty		K_1 [K_K03] student is ready to observe the principles of ethics in ecotoxicological research and to respect the principles of intellectual integrity [A2-A4]		[SK8] observation of student's independent or team work		
	[AKWAL3-U07] can come to the right conclusions on the basis of available data		U_1 [K_U07] student is capable of making correct inferences on the basis of ecotoxicological tests [A2-A3].		[SU8] observation of student's independent or team work		
	[AKWAL3_W03] knows and understands the conceptual categories and terminology related to the biological basis of aquatic organisms breeding, as well as concepts directly relevant to the practical applications of this knowledge		W_1 [K_W03] student knows and understands the conceptual categories and terminology concerning the effects of anthropogenic pollution and natural substances on organisms in aquaculture. He/she knows and understands concepts directly relevant to the practical applications of this knowledge [A1-A4].		[SW4] test/exam - oral or written		

Subject contents	1. Characteristics of classes of pollution of anthropogenic origin.2. Threats to aquaculture from natural products of aquatic organisms.3. Toxicokinetics and toxicodynamics of harmful substances in aquaculture.4. Aquacultures - a source of harmful substances.		
Prerequisites and co-requisites	not required		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exam	51.0%	100.0%
Recommended reading	Basic literature	1. Walker C.H., Hopkin S.P., Sibly R.M., Peakall B., 2002. Podstawy Ekotoksykologii, PWN, Warszawa 2. Laskowski R., Migula P., 2004. Ekotoksykologia od komórki do ekosystemu, Państwowe Wyd. Rolnicze i Leśne, Warszawa 3. Klaassen J.B., Watkins III J.B., 2014. Podstawy Toksykologii, MedPharm Polska 4. Manahan S.E., 2006. Toksykologia środowiska. PWN, Warszawa 5. Cole D.W., Cole R., Gaydos S.J., Gray J., Hyland G., Jacques M.L., Powell-Dunford N., Sawhney C., Au W.W. 2009. Aquaculture: Environmental, toxicological, and health issues. Int. J. Hyg. Environ. Health 212 (2009) 369377	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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