

Subject card

Subject name and code	Marine ecotoxicology - lecture, PG_00117869						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group Subject group related to scientific research 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	2		ECTS credits		1.0		
Learning profile	academic		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 Błaszczuk				
	Teachers						
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		2.0		8.0	25
Subject objectives	Learning about the ecological effects of pollution of the marine environment by different groups of chemical compounds (effects from organism to ecosystem level). Learning about environmental risk assessment methods.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANMU2-K06] is ready to think and act in a way enterprising, and based on qualifications, engaging in preparation or implementation of professional tasks		Is ready to use the knowledge gained in planning and designing work activities [A1-A5].		[SK1] oral statement/conversation/discussion		
	[OCEANMU2-U03] can plan and carry out independently advanced research and measurements, both in field and laboratory, using appropriately selected measurement and analytical techniques in the field of oceanography, adequately to the studied specialty and research problem		Can develop, describe and present the results of tests and analyses of contaminants and form conclusions [A3-A5].		[SU3] text preparation/written work		
	[OCEANMU2-W04] knows and understands the latest research trends in the field of oceanography as well as the possibilities of practical application of scientific achievements		the student knows and understands the relationship between environmental pollution and its functioning; is aware of the complex nature of these interactions [A2-A4].		[SW4] test/exam - oral or written [SW5] implementation of a problem task		

Subject contents	1. Field of ecotoxicology, basic terminology, history and precursors of marine ecotoxicology.2. General classification of compounds posing the greatest threat to the marine environment.3. Transport of pollutants in the environment; fate of pollutants in the body.4. Effects of pollutants on organism, populations and ecosystem.5. Methods of environmental risk assessment.		
Prerequisites and co-requisites			
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. Wierzbicka M., 2021. Ekotoksykologia, Wydawnictwo Uniwersytetu Warszawskiego 4. Manahan S.E., 2006. Toksykologia środowiska. PWN, Warszawa 5. Traczewska T.M., 2011. Biologiczne metody oceny skażenia środowiska. Oficyna Wydawnicza Politechniki Wrocławskiej	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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