

**Subject card**

<b>Subject name and code</b>	Marine ecotoxicology - lecture, PG_00117869						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>				2024/2025	
<b>Education level</b>	postgraduate studies	<b>Subject group</b>				Obligatory subject group in the field of study	
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	1	<b>Language of instruction</b>				Polish Polish	
<b>Semester of study</b>	2	<b>ECTS credits</b>				1.0	
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Biotechnologii Morskiej -> Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Agata Błaszczuk				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		2.0		8.0	25
<b>Subject objectives</b>	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.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[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	
	[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-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	

Subject contents	<p>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.</p>		
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	<p>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</p>	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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