

Subject card

Subject name and code	Principles of Toxicology - laboratory , PG_00206167						
Field of study	Oceanography						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
Education level	Bachelor'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	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			2.0		
Learning profile	academic	Assessment form			credit		
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	0.0	0.0	15.0	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	To introduce students to methods of analysing xenobiotics and assessing their toxicity (assays, biomarkers).						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANL3-K01] is willing to plan and implement, individually or as a team, the subsequent stages of the entrusted task, is willing to take responsibility for the results of these works, effectively cooperates in the team and performs various roles in it		K_K01: student is ready to take responsibility for his/her own and the team's work		[SK4] test/exam - oral or written		
	[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions		K_U03 the student is able to prepare the results of chemical analyses and toxicological tests and form conclusions		[SU4] test/exam - oral or written		
Subject contents	1 Chemical methods of xenobiotics sanalysis. 2 Toxicological tests 3 Biomarkers in toxicology						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Test		51.0%		100.0%		

Recommended reading	Basic literature	1. Jurowski K., Piekoszewski W., 2020. Toksykologia tom 1 i 2. PZWL Wydawnictwo Lekarskie. Warszawa 2. Watkins III, John B., Klaassen, Curtis D. 2014. Podstawy Toksykologii Casarett&Doull, MedPharm. ISBN: 978-83-7846-058-9 3. 3. Traczewska T.M., 2011. Biologiczne metody oceny skażenia środowiska. Oficyna Wydawnicza politechniki Wrocławskiej. ISBN 978-83-7493-597- 5
	Supplementary literature	-
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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