

Subject card

Subject name and code	Principles of toxicology - laboratory exercises, PG_00118099						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
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		5.0		20.0	40
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		[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work		
	OCEANL3-U03		K_U03 the student is able to prepare the results of chemical analyses and toxicological tests and form conclusions		[SU1] oral statement/conversation/discussion [SU3] text preparation/written work [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		
	exam		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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