

Subject card

Subject name and code	Radiochemistry of marine environment , PG_00179534						
Field of study	Chemistry, Environmental Protection						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Master's studies	Subject group			Optional subject group		
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			credit		
Conducting unit	Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dagmara Strumińska-Parulska				
	Teachers		dr Karolina Szymańska				
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		5.0	25
Subject objectives	familiarizing students with selected elements of radiochemical analysis						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[OŚMU2_U02] Uses advanced measurement and analytical techniques used in environmental protection.	is able to perform radiochemical analysis of seawater samples			[SU8] observation of student's independent or team work		
	[OŚMU2_K06] Recognises the importance of knowledge in solving encountered cognitive and practical problems and consults experts in the event of difficulties in solving a problem on her/his own.	can assess the most important radioactive threats to the marine environment			[SK8] observation of student's independent or team work		
[OŚMU2_W04] Chooses methods, techniques and research tools used in environmental protection.	has knowledge of radiochemical analysis of marine samples			[SW4] test/exam - oral or written			
Subject contents	techniques for collecting marine samples for radiochemical analysis, co-precipitation of water samples, mineralization of samples, separation and preparation of polonium and uranium measuring preparations from water samples, activity determination in an alpha spectrometer						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	writing test		51.0%		90.0%		
	performing laboratory tasks		51.0%		10.0%		
Recommended reading	Basic literature		Skwarzec B., Radiochemia środowiska, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk, 2021				

	Supplementary literature	Frontasyeva M., Pereygin V., Vater P., Radionuclides and Heavy Metals in Environment, Springer, 2000 Dahlgard H., Nordic Radioecology: The Transfer of Radionuclides through Nordic Ecosystems to Man, Elsevier, 1994, Magil J., Galy J., Radioaktywność - radionuklidy - promieniowanie, Springer, 2005,
	eResources addresses	
Example issues/ example questions/ tasks being completed	-	
Work placement	Not applicable	

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