University of Gdańsk

Subject card

Subject name and code	Chemical and radiochemical environmental analysis, PG_00082497		
Field of study	Chemistry		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Environmental Analytics and Radiochemistry -> Department of Environmental Chemistry and Radiochemistry -> Faculty of Chemistry -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Bogdan Skwarzec	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

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	30	5.0	40.0	75

Subject objectives

The aim of the course is to familiarize students with radiochemical methods

Learning outcomes

Course outcome	Subject outcome	Method of verification
[CHEMMU2_K01] Knows the limitations of her/his own knowledge; understands the need for further education and can inspire other people to do so.	understands the needs for further education	[SK1] oral statement/conversation/ discussion [SK4] test/exam - oral or written
[CHEMMU2_W05] Has extended knowledge in the field of the specialisation studied.	has knowledge about the studied specialty	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[CHEMMU2_W01] Uses knowledge of spectroscopic methods of chemical compound analysis.	has knowledge of spectroscopic methods	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[CHEMMU2_W11] Demonstrates general knowledge about the current trends in the development of chemistry as a science and the latest discoveries in this field.	has knowledge of current directions in the development of chemistry	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion

Subject contents

natural and artificial radioactivity radial analytical methods determination and separation of radionuclides in environmental samples

Prerequisites and co-requisites

analytical chemistry and basics of radiochemistry

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written exam	51.0%	100.0%

Recommended reading

Basic literature	Bogdan Skwarzec, Environmental radiochemistry, UG Publishing House, 2021
Supplementary literature	not applicable

	eResources addresses	
Example issues/ example questions/ tasks being completed	List the radianalytic methods Discuss methods for determining radionuclides in environmental samples	
Work placement	Not applicable	

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