

Subject card

Subject name and code	Radiochemistry and radiation protection, PG_00170310						
Field of study	Chemistry, Environmental Protection						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		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		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Toxicology and Radiation Protection -> Department of Environmental Chemistry and Radiochemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dagmara Strumińska-Parulska				
	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		5.0	25
Subject objectives	Familiarizing students with all the issues mentioned in the exercise program						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OŚL3_U01] Performs tasks under supervision and independently in the field of analysis of the natural environment and the functioning of natural and man-made natural systems.		knows how to carry out an analysis radiochemistry of environmental samples		[SU3] text preparation/written work [SU8] observation of student's independent or team work		
	[OŚL3_W11] Discusses measurement systems and analysis techniques used in monitoring the state of the natural environment.		has knowledge of methods radiochemical		[SW1] oral statement/conversation/discussion [SW3] text preparation/written work		
	[OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development.		knows and understands basic concepts related to radiochemistry, radiology and radiotoxicity		[SK1] oral statement/conversation/discussion [SK3] text preparation/written work [SK8] observation of student's independent or team work		
	[OŚL3_U02] Plans, selects appropriate research and measuring equipment and devices, performs physicochemical measurements and experiments; analyses the results and draws conclusions based on them.		knows how to carry out an analysis radiochemistry of environmental samples		[SU3] text preparation/written work [SU8] observation of student's independent or team work		
Subject contents	Collection of environmental samples for radiochemical analysis, mineralization of food samples, separation and separation of polonium and uranium from environmental samples, preparation of measurement preparations, determination of the activity of selected radioisotopes.						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	reports on the exercises performed	51.0%	100.0%
Recommended reading	Basic literature	Skwarzec B., Kabat K., Strumińska-Parulska D., Radiochemical analysis of environmental samples - laboratory guide, 2009 Olszewski G., Strumińska-Parulska D., Guide to laboratory exercises in nuclear chemistry, radiochemistry, and monitoring of radioactive pollution, 2024	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		

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