

Subject card

Subject name and code	Radioactivity around us, PG_00132878						
Field of study	Criminology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group				
Mode of study	full-time studies		Mode of delivery		e-learning		
Year of study	1		Language of instruction		English Polish		
Semester of study	1		ECTS credits		2.0		
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, prof. UG				
	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: 30.0						
	Additional information:						
	Lecture based on the multimedia presentation in-class or online learning.						
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		2.0		18.0	50
Subject objectives	Familiarize students with the topics of the course content						

Learning outcomes	Course outcome	Subject outcome	Method of verification
		Student: gains knowledge in the scope of classes. finds necessary information in specialist literature, databases and other sources, lists basic scientific journals in the field of chemistry implements directions of further education knows the limitations of his/her own knowledge; understands the need for further education and is able to inspire others to do so understands the need for systematic work on various long-term projects and is able to determine priorities in the implementation of undertaken tasks undertakes research tasks consciously and responsibly, understanding the social aspects of practical use of acquired knowledge and skills and the related responsibility characterizes the effects of human interference in the natural environment and explains the mechanisms of the response of living organisms to its pollution	[SW1] oral statement/ conversation/discussion [SU1] oral statement/conversation/ discussion [SK1] oral statement/conversation/ discussion
Subject contents	Radiochemistry and radiation protection basics. Sources and distribution of natural and artificial radionuclides. Radiotoxicity and its groups. Dosimetry and its units. Radiation doses. Sources of radiochemical contamination and radiation doses evaluation. Food examples and their influence on the radiation dose. The Chernobyl and the Fukushima accidents. Monitoring of radioactive food contamination. Radiological effects of smoking cigarettes.		
Prerequisites and co-requisites	no formal requirements		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity during classes	51.0%	100.0%
Recommended reading	Basic literature	Frontasyeva M., Perelygin V., Vater P., Radionuclides and Heavy Metals in Environment, Springer, 2000 Dahlgaard H., Nordic Radioecology: The Transfer of Radionuclides through Nordic Ecosystems to Man, Elsevier, 1994, Magil J., Galy J., Radioaktywność - radionuklidy - promieniowanie, Springer, 2005,	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		

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