

Subject card

Subject name and code	Fundamentals of Radiochemistry, PG_00188313						
Field of study	Podstawy radiochemii (Wykład)						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		exam		
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	15.0	0.0	0.0	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		2.0		8.0	25
Subject objectives	familiarizing students with all the issues mentioned in the lecture program content						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[AKRL3_K06] The graduate is ready to follow occupational health and safety regulations in the laboratory and care for the safety of themselves and others.		1. Understands the need for further education regarding the safe use of ionizing radiation		[SK4] test/egzamin - ustny lub pisemny		
	[AKRL3_W03] The graduate knows and understands the structure and chemical properties of compounds relevant in forensic examinations.		1. Knows radiometric methods 2. Knows qualitative methods using ionizing radiation		[SW4] test/egzamin - ustny lub pisemny		
	[AKRL3_W01] The graduate knows and understands, at an advanced level, the laws and theories in the field of chemistry, as well as the basics of biology, mathematics and law constituting general knowledge in the scientific disciplines forming the theoretical foundations relevant to the study program.		1. knows and understands basic concepts related to radiochemistry, 2. knows natural and artificial radioactive elements in the environment and their sources, 3. has knowledge of the effects of ionizing radiation on living matter, 4. understands the concept of radiotoxicity and knows its groups		[SW4] test/egzamin - ustny lub pisemny		
Subject contents	Ionizing radiation. Basic concepts of radiochemistry and radiological protection. Radioactive elements. Radiotoxicity and its groups. Measurement of ionizing radiation - qualitative and quantitative methods. Imaging using ionizing radiation.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	writing test	51.0%	100.0%
Recommended reading	Basic literature	Szymański W., Chemia jądrowa, PWN, Warszawa 1996	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		

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