University of Gdańsk

Subject card

Subject name and code	Food Radiochemistry and Radiation Protection, PG_00082065						
Field of study	Chemistry						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2026/2027			
Education level	Bachelor's studies		Subject group	Obligatory subject group in the field of study			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	3		Language of instruction	Polish			
Semester of study	5		ECTS credits	1.0			
Learning profile	academic		Assessment form	credit			
Conducting unit							
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	30.0	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		1.0		9.0	40
Subject objectives	familiarizing students with all issues mentioned in the lecture program content						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[CHEML3_U04] Plans and performs simple chemical experiments and analyses the results obtained.	is able to perform radiochemical analysis of food samples	[SU8] observation of student's independent or team work
[CHEML3_K08] Formulates opinions in the field of science with caution and criticism in their expression.	understands the need for further education in the field of monitoring radiochemical contamination of the environment,	[SK8] observation of student's independent or team work
[CHEML3_U02] Performs analyses using experimental methods and draws conclusions based on them.	is able to assess the most important radioactive threats to humans and knows how to reduce them,	[SU8] observation of student's independent or team work
[CHEML3_W02] Describes the properties of elements and the most important chemical compounds, enumerates the methods of their preparation and methods of analysis.	knows and understands the basic concepts related to radiochemistry, radiology and radiotoxicity,	[SW4] test/exam - oral or written
[CHEML3_W05] Has basic knowledge of the chemical specialisation studied.	has knowledge of radiochemical methods	[SW4] test/exam - oral or written
[CHEML3_W11] Defines the basic principles of occupational health and safety and ergonomics necessary for the proper organization of learning.	knows the principles of working with radioactive elements	[SW4] test/exam - oral or written
[CHEML3_U08] Presents in an understandable way the basic facts about chemistry using a scientific language typical of chemical sciences.	1. understands the basic concepts of radiochemistry and radiotoxicology, 2. recognizes the most important natural and artificial radionuclides contained in humans,	[SU8] observation of student's independent or team work
[CHEML3_K07] Appreciates the need for understandable presentation of selected chemical issues to the public.	is able to convey knowledge to society about the sources of radiochemical contamination in building materials,	[SK8] observation of student's independent or team work

Subject contents

Collection of food samples for radiochemical analysis, mineralization of food samples, separation and separation of polonium, uranium and plutonium from food samples, determination of the activity of selected isotopes in food samples

Prerequisites and co-requisites

Assessment methods and criteria

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

Recommended reading

Basic literature	Skwarzec, Radiochemia środowiska i ochrona radiologiczna, Wydawnictwo DJ s.c, Gdańska, 2002,
Supplementary literature	-
eResources addresses	

Example issues/ example questions/ tasks being completed

-

Work placement

Not applicable

Document generated electronically. Does not require a seal or signature.