

Subject card

Subject name and code	Nuclear Physics Laboratory, PG_00205530						
Field of study	Medical Physics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
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	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Angelina Łobejko				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	0.0	0.0	45
	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	45		0.0		55.0	100
Subject objectives	Conducting laboratory exercises in nuclear physics and elementary particles, and familiarizing oneself with methods for measuring nuclear radiation and other phenomena at the nuclear level.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FIZMEDL3_U09] Can communicate effectively with colleagues and other employees, works in a team, including interdisciplinary teams, and manages his/her own and his/her colleagues' time appropriately.	Students are able to collaborate effectively as part of a team during nuclear physics laboratory sessions, communicate their results and observations to team members, and organize their own and the group's work in a way that ensures tasks are completed on time.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[FIZMEDL3_W01] Knows and understands at an advanced level the phenomena, principles, laws and theories specific to physics and biophysics.	The student has an advanced knowledge and understanding of the physical phenomena and laws related to radioactivity, the interaction of ionizing radiation with matter, and nuclear processes, and is able to apply this knowledge to interpret the results of experiments conducted in the nuclear physics laboratory.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[FIZMEDL3_U02] He can perform measurements of physical quantities, prepare, describe, and present the results of physical experiments, including the estimation of measurement uncertainties, and perform quantitative analyses and formulate qualitative conclusions based on them.	Students are able to measure physical quantities related to radioactivity and ionizing radiation, compile and interpret the results of laboratory exercises in nuclear physics, determine measurement uncertainties, perform quantitative data analysis, and draw conclusions based on the results obtained.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[FIZMEDL3_U08] Can prepare a written paper or presentation in Polish or English using specialised terminology in the field of physics and medical physics.	The student is able to independently analyze the results of experimental research conducted in the nuclear physics laboratory, prepare scientific documentation, and present the results in Polish or English, using the appropriate nomenclature, symbols, and terminology specific to nuclear physics and medical physics.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[FIZMEDL3_W04] Knows and understands, at an advanced level, the role of the physical experiment and the elements of measurement uncertainty theory.	The student knows and understands the principles of conducting experiments in nuclear physics, including methods of data acquisition, identifying sources of measurement uncertainty, and assessing their impact on the reliability of the results obtained.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
Subject contents	not applicable		
Prerequisites and co-requisites	not applicable		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	50.0%
		51.0%	50.0%
Recommended reading	Basic literature	not applicable	
	Supplementary literature	not applicable	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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