

Subject card

Subject name and code	Nanoparticles in Environmental Protection, Medicine, and Biotechnology, PG_00210465						
Field of study	Nuclear safety and radiological protection						
Date of commencement of studies	October 2026	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	1	Language of instruction		Polish			
Semester of study	2	ECTS credits		2.0			
Learning profile	academic	Assessment form		credit			
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Adriana Zaleska-Medynska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	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		0.0		30.0	60
Subject objectives							
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BJORL3_W05] Has advanced knowledge of the elementary components of matter and the types of fundamental interactions between them, the manifestations of these interactions in phenomena occurring at scales ranging from subatomic to subatomic, knows the time and energy scales associated with these phenomena.						
	[BJORL3_W03] Has advanced knowledge and understanding of the principles of planning and conducting simple physical and chemical experiments and analyzing obtained results; has knowledge and understanding of the fundamentals of measurement uncertainty as applied to experiments, the base SI units and the most important derived units, as well as other systems of units.						
	[BJORL3_U03] Is able to use the formalism of physics and chemistry to describe phenomena in the microworld.						
Subject contents							
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		0.0%	0.0%
Recommended reading	Basic literature		
	Supplementary literature		
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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