

Subject card

Subject name and code	Physical laboratory - electromagnetism and thermodynamics, PG_00158599						
Field of study	Nuclear safety and radiological protection						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Marta Miotke-Wasilczyk				
	Teachers		dr Marta Miotke-Wasilczyk				
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		45.0	90
Subject objectives	not applicable						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BJORL3_W02] Understands the role of physical and chemical experimentation, mathematical theoretical models approximating reality, and computer simulations in scientific research methodology; is aware of technological, apparatus, and methodological limitations in scientific research	not applicable	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[BJORL3_K08] can think and act in an entrepreneurial way	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[BJORL3_U09] Can independently plan and implement his own learning	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[BJORL3_U02] Has the ability to perform measurements of basic quantities used in physics and chemistry; can develop, describe and present the results of simple experiments and computer simulations; can perform quantitative analyses and formulate qualitative conclusions on this basis; can estimate measurement uncertainties	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[BJORL3_W03] knows how to plan and perform a simple physical or chemical experiment and analyze the results obtained; knows the elements of the theory of measurement uncertainty as applied to experiments; knows the basic units of the SI system and its most important derived units; knows other systems of measurement units	not applicable	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[BJORL3_K07] has a sense of responsibility for jointly implemented tasks; is able to interact and work in a group, taking on different roles in it	not applicable	[SK1] oral statement/conversation/ discussion [SK2] 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
	not applicable	51.0%	40.0%
	not applicable	51.0%	60.0%
Recommended reading	Basic literature	not applicable	
	Supplementary literature	not applicable	
	eResources addresses		
Example issues/ example questions/ tasks being completed	not applicable		
Work placement	Not applicable		

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