

Subject card

Subject name and code	Copy, PG_00155839						
Field of study	Physics						
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 not applicable	
Semester of study	6		ECTS credits			2.0	
Learning profile	academic		Assessment form			credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Adam Rutkowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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	not applicable						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FIZL3_U16] can independently plan and implement his own learning	not applicable	[SU3] text preparation/written work
	[FIZL3_U01] can formulate basic physical laws using mathematical formalism	not applicable	[SU3] text preparation/written work
	[FIZL3_U04] can apply the formalism of phenomenological thermodynamics and statistical physics to describe complex systems	not applicable	[SU3] text preparation/written work
	[FIZL3_W09] knows and understands basic thermodynamic phenomena and processes and their description on the grounds of phenomenological thermodynamics and statistical physics	non aplicable	[SW3] text preparation/written work
	[FIZL3_W11] knows the basic computational methods used in classical mechanics, electrodynamics, quantum mechanics and statistical physics	not applicable	[SW3] text preparation/written work
	[FIZL3_K01] knows the limitations of his own knowledge and understands the need for further education	not applicable	[SK3] text preparation/written work
	[FIZL3_W01] has advanced knowledge of physical concepts, principles and theories, understands their historical development and significance not only for physics, but also for other exact and natural sciences and cognition of the world	not applicable	[SW3] text preparation/written work
	[FIZL3_W02] understands the role of physical experiments, mathematical theoretical models approximating reality and computer simulations in the methodology of scientific research; is aware of technological, equipment and methodological limitations in scientific research	not applicable	[SW3] text preparation/written work
	[FIZL3_U06] can use the formalism of quantum physics to describe physical phenomena in the microworld	not applicable	[SU3] text preparation/written work
	[FIZL3_K08] is able to speak competently on basic problems of physics and its applications	not applicable	[SK3] text preparation/written work
	[FIZL3_K02] can precisely formulate problems to deepen understanding of a given topic	not applicable	[SK3] text preparation/written work
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%	100.0%
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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