

Subject card

Subject name and code	Principles of physics for medical physics III, PG_00155878						
Field of study	Medical Physics						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026	
Education level	undergraduate 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 not applicable	
Semester of study	3		ECTS credits			5.0	
Learning profile	academic		Assessment form				
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rektor						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Stanisław Pogorzelski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		0.0		90.0	150
Subject objectives	not applicable						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FIZMEDL3_W02] understands the role of physical experiment, mathematical theoretical models approximating reality and computer simulations in the methodology of scientific research; is aware of technological, apparatus and methodological limitations in scientific research	not applicable	[SW4] test/exam - oral or written
	[FIZMEDL3_W08] knows and understands basic thermodynamic phenomena and processes and their description on the basis of phenomenological thermodynamics and statistical physics, as well as the apparatus of statistical physics as a representation of thermodynamic processes in biology	not applicable	[SW4] test/exam - oral or written
	[FIZMEDL3_W10] knows the basic computational methods used in classical mechanics, electrodynamics, quantum mechanics and statistical physics	not applicable	[SW3] text preparation/written work
	[FIZMEDL3_U01] can formulate basic physical laws using mathematical formalism	not applicable	[SU3] text preparation/written work [SU4] test/exam - oral or written
	[FIZMEDL3_U04] can apply the formalism of phenomenological thermodynamics and statistical physics to describe complex systems	not applicable	[SU3] text preparation/written work
	[FIZMEDL3_U07] has the ability to quantitatively analyze vibration and wave motion and describe optical and acoustic phenomena and the interaction of light with matter	not applicable	[SU3] text preparation/written work [SU4] test/exam - oral or written
	[FIZMEDL3_K01] knows the limitations of his own knowledge and understands the need for further education	not applicable	[SK1] oral statement/conversation/discussion [SK3] text preparation/written work [SK4] test/exam - oral or written
	[FIZMEDL3_K05] understands the need and importance of popularizing physical knowledge	not applicable	[SK4] test/exam - oral or written
	[FIZMEDL3_K08] can speak competently about basic problems of physics and its applications	not applicable	[SK1] oral statement/conversation/discussion
[FIZMEDL3_W01] has general knowledge of basic physical concepts, principles and theories, understands their historical development and importance not only for physics, but also for science and life sciences and knowledge of the world	not applicable	[SW4] test/exam - oral or written [SW3] 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	50.0%	60.0%
	not applicable	0.0%	5.0%
	not applicable	51.0%	35.0%
Recommended reading	Basic literature	not applicable	
	Supplementary literature	not applicable	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	not applicable		
Work placement	Not applicable		

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