

Subject card

Subject name and code	Principles of physics for medical physics I, PG_00155868						
Field of study	Medical Physics						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025	
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	1		Language of instruction			Polish no applicable	
Semester of study	1		ECTS credits			9.0	
Learning profile	academic		Assessment form				
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rektor						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marek Józefowicz				
	Teachers		dr Marta Miotke-Wasilczyk dr hab. Marek Józefowicz				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	60.0	60.0	0.0	0.0	0.0	120
	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	120		0.0		150.0	270
Subject objectives	no applicable						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FIZMEDL3_W05] knows and understands the basic laws and principles of non-relativistic and relativistic mechanics	no applicable	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work
	[FIZMEDL3_K08] can speak competently about basic problems of physics and its applications	no 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	no applicable	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK4] test/exam - oral or written
	[FIZMEDL3_K01] knows the limitations of his own knowledge and understands the need for further education	no applicable	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK4] test/exam - oral or written
	[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	no applicable	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU4] test/exam - oral or written
	[FIZMEDL3_U03] can apply the formalism of classical physics to describe phenomena at the macroscopic level	no applicable	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU4] test/exam - oral or written
	[FIZMEDL3_U01] can formulate basic physical laws using mathematical formalism	no applicable	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU4] test/exam - oral or written
	[FIZMEDL3_W10] knows the basic computational methods used in classical mechanics, electrodynamics, quantum mechanics and statistical physics	no applicable	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work
	[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	no applicable	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work
[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	no applicable	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work	
Subject contents	no applicable		
Prerequisites and co-requisites	no applicable		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	no applicable	51.0%	40.0%
	no applicable	51.0%	60.0%
Recommended reading	Basic literature	no applicable	
	Supplementary literature	no applicable	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	no applicable		
Work placement	Not applicable		

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