

Subject card

Subject name and code	Physics, PG_00029466								
Field of study	Mathematics								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research 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			
Semester of study	5		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Atomic, Molecular and Optical Physics -> Faculty of Applied Physics and Mathema					matics			
Name and surname	Subject supervisor	dr inż. Patrycja Stefańska-Ptaszek							
of lecturer (lecturers)	Teachers		dr inż. Ireneus dr inż. Patrycj dr inż. Paweł dr inż. Marcin	taszek					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	15.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study hours 60			5.0		35.0		100	
Subject objectives	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.							I phenomena.	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U05		Student is able to analyze and interpret physical phenomena, describe them mathematically and derive appropriate physical relations.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	K6_W03		As part of the course, the student			[SW1] Assessment of factual knowledge			
	K6_U09		Student is able to solve physical problems as part of the classes			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	K6_U06		As part of numerical exercises, the student applies knowledge of the function integration.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
Subject contents	Mechanics Geometrical and way	re ontics							
	Geometrical and wave optics								
	Thermodynamics								
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Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	laboratories	50.0%	20.0%		
	classes	50.0%	35.0%		
	final exam	50.0%	45.0%		
Recommended reading	Basic literature	D. Halliday, R. Resnick and J. Walker "Podstawy fizyki" PWN tom 1-5 "Feynmana Wykłady z Fizyki" PWN Warszawa			
	Supplementary literature Paul G. Hewitt "Fizyka wokół nas" PWN Warszawa				
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Conservation of energy, momentum and angular momentum. Simple harmonic motion. Longitudinal wave energy density. Interference phenomenon Ohm's law Lensmaker's equation				
Work placement	Not applicable				

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