

Subject card

Subject name and code	Physics, PG_00029466								
Field of study	Mathematics								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group						
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 Mathematics							ematics	
Name and surname	Subject supervisor		dr inż. Patrycja Stefańska-Ptaszek						
of lecturer (lecturers)	Teachers		dr inż. Patrycja Stefańska-Ptaszek						
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 incl	earning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		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.							al phenomena.	
Learning outcomes	Course outcome Subject outcome Method of verification								
	K6_U06		As part of numerical exercises, the student applies knowledge of the function integration.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	K6_U09		Student is able to solve physical problems as part of the classes			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	K6_W03		As part of the course, the student gains knowledge about selected physical laws, theories, measurement methods, is able to explain and describe them.			[SW1] Assessment of factual knowledge			
	K6_U05		Student is able to analyze and interpret physical phenomena, describe them mathematically and derive appropriate physical relations.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
Subject contents	Mechanics								
	Geometrical and wave optics								
	Thermodynamics								
	Selected topics of contemperary physics								
Prerequisites and co-requisites									

Data wydruku: 05.05.2024 00:29 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	final exam	50.0%	45.0%			
	classes	50.0%	35.0%			
	laboratories	50.0%	20.0%			
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	pplementary 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 phenomenonOhm's lawLensmaker's equation					
Work placement	Not applicable					

Data wydruku: 05.05.2024 00:29 Strona 2 z 2