



## Subject card

Subject name and code	Technical Physics, PG_00050182						
Field of study	Engineering Management						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study		
Mode of study	Part-time studies (on-line)	Mode of delivery			blended-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			5.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Division of Complex Systems Spectroscopy -> Institute of Physics and Applied Computer Science -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Dampc					
	Teachers	dr inż. Marcin Dampc					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	16.0	0.0	16.0	0.0	0.0	32
	E-learning hours included: 24.0						
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	32	8.0		85.0		125
Subject objectives	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U01] interprets and analyses the phenomena and processes taking place in the economy and organisation using basic theoretical knowledge of economics, management and science	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.			[SU4] Assessment of ability to use methods and tools		
	[K6_W11] has the basic knowledge of mathematics, physics and chemistry necessary to solve technical problems	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.			[SW1] Assessment of factual knowledge		
Subject contents	Mechanics Optics Heat Waves Optics Special Theory of Relativity Electricity and Magnetism Nuclear Physics Quantum Physics						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	final exam	50.0%			50.0%		
	laboratories	50.0%			50.0%		
Recommended reading	Basic literature	D. Halliday, R. Resnick and J. Walker "Podstawy fizyki" PWN tom 1-5 "Feynmana Wykłady z Fizyki" PWN Warszawa 2015					
	Supplementary literature	Paul G. Hewitt "Fizyka wokół nas" PWN Warszawa 2022					

	eResources addresses	Adresy na platformie eNauczenie: Fizyka techniczna dla ZiE, zaoczne on-line, 2022/2023 - Moodle ID: 26355 <a href="https://enauczenie.pg.edu.pl/moodle/course/view.php?id=26355">https://enauczenie.pg.edu.pl/moodle/course/view.php?id=26355</a>
Example issues/ example questions/ tasks being completed	The laws of classical mechanics	
Work placement	Not applicable	

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