

## Subject card

Subject name and code	Technical Physics, PG_00044373								
Field of study	Engineering Management								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
Education level	first-cycle 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			
Semester of study	1		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Atomic, Molecular and Optical Physics -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Paweł Możejko						
	Teachers		dr inż. Ewa Erdmann						
			dr hab. Mateusz Zawadzki						
			dr Tomasz Neumann						
			dr Mykola Shopa						
			dr hab. Paweł Możeiko						
			,						
	dr hab. inż. Maciej Demianowicz								
Lesson types and methods of instruction	Lesson type Lecture		Tutorial Laboratory Project		:t	Seminar	SUM		
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
	Fizyka Techniczna - Zarządzanie Inżynierskie (WZiE) - Moodle ID: 171 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=171								
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Learning activity and number of study hours	Learning activity			Participation in consultation hours		Self-study		SUM	
	Number of study hours	60		6.0		59.0		125	
Subject objectives	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.								
Learning outcomes	Course out	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 [SU1] Assessment of task fulfilment			
	[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			

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Subject contents	Mechanics Optics Heat Waves Statistical physics Atomic physics Nuclear Physics Quantum Physics							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	final exam	50.0%	50.0%					
	laboratories	50.0%	50.0%					
Recommended reading	Basic literature	D. Halliday, R. Resnick and J. Walker "Podtsawy fizyki" PWN tom 1-5 "Feynmana Wykłady z Fizyki" PWN Warszawa J. Orear, <i>Fizyka</i> , WNT, Tom 1 i 2						
	Supplementary literature  eResources addresses	Paul G. Hewitt "Fizyka wokół nas" PWN Warszawa  I. W. Sawieliew, <i>Wykłady z Fizyki</i> , PWN, Tom 1-3  Fizyka Techniczna - Zarządzanie Inżynierskie (WZiE) - Moodle ID: 171						
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=171 Fizyka Techniczna - Zarządzanie Inżynierskie (WZiE) - Moodle ID: 171 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=171						
Example issues/ example questions/ tasks being completed	The laws of classical mechanics							
Work placement	Not applicable							

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