

Subject card

Subject name and code	Technical Physics, PG_00044373								
Field of study	Engineering Management								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		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		Assessmer	nt 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 inż. Patrycja Stefańska-Ptaszek								
	Teachers		dr inż. Patrycja Stefańska-Ptaszek						
			dr hab. Mateusz Zawadzki						
			dr Maciej Kuna						
			dr inż. Marcin Dampc						
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	mgr inż. Natalia Tańsk				3ka				
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 0.0 60			60	
	E-learning hours included: 30.0								
	Adresy na platformie eNauczanie: Fizyka techniczna ZiE wykład - Moodle ID: 18466 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18466								
Learning activity and number of study hours	Learning activity	arning activity Participation in classes included plan		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.							l phenomena.	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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			
	[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		Ability to use basic physical laws.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			

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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	laboratories	50.0%	50.0%		
	final exam	50.0%	50.0%		
Recommended reading	D. Halliday, R. Resnick and J. Walker "Podtsawy fizyki" Pw "Feynmana Wykłady z Fizyki" PWN Warszawa J. Orear, <i>Fizyka</i> , WNT, Tom 1 i 2				
	Supplementary literature	Paul G. Hewitt "Fizyka wokół nas" PWN Warszawa I. W. Sawieliew, Wykłady z Fizyki, PWN, Tom 1-3			
	eResources addresses	Pizyka techniczna ZiE wykład - Moodle ID: 18466 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18466			
Example issues/ example questions/ tasks being completed	The laws of classical mechanics				
Work placement	Not applicable				

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