

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 Tańska								
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 di 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.								
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		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	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			
	or resources addresses	Fizyka 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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