

## § GDAŃSK UNIVERSITY § OF TECHNOLOGY

## Subject card

Subject name and code	Technical Physics, PG_00044373								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022	2022/2023		
Education level	first-cycle studies		Subject group			U U	Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the	at the university		
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	1		ECTS credits			5.0	5.0		
Learning profile	general academic profile		Assessment form			exam	exam		
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 Maciej Kuna						
			dr inż. Patrycja Stefańska-Ptaszek						
		mgr inż. Natalia Tańska							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
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	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_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.			[SU1] Assessment of task fulfilment [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					[SW1] Assessment of factual knowledge			
Subject contents	Mechanics Optics Heat Waves Statistical physicsAtomic physicsNuclear Physics Quantum Physics								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Pass	Passing threshold			Percentage of the final grade		
	laboratories		50.0%	50.0%			50.0%		
	final exam		50.0%	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 WarszawaJ. Orear, <i>Fizyka</i> , WNT, Tom 1 i 2
	Supplementary literature	Paul G. Hewitt "Fizyka wokół nas" PWN Warszawa I. W. Sawieliew, <i>Wykłady z Fizyki</i> , PWN, Tom 1-3
	eResources addresses	Podstawowe https://enauczanie.pg.edu.pl/moodle/enrol/index.php?id=26135 - ecourse Adresy na platformie eNauczanie: Fizyka Techniczna ZiE 2022/23 - Moodle ID: 26135 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26135
Example issues/ example questions/ tasks being completed	The laws of classical mechanics	
Work placement	Not applicable	