

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	TECHNICAL PHYSICS, PG_00061324							
Field of study	Engineering Manager	ment						
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024		
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	2		ECTS credits			6.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Instytut Fizyki i Inform	nej -> Faculty of Applied Physics and Mathematics						
Name and surname	Subject supervisor	dr inż. Patrycja Stefańska-Ptaszek						
of lecturer (lecturers)	Teachers dr inż. Patrycja Stefańska-Ptaszek							
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: 2.0							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan			Participation in consultation hours		udy	SUM
	Number of study hours	60		7.0		83.0		150
Subject objectives	Interprets physical phenomena in an advanced way, using properly selected analytical and empirical methods							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K6_W02] demonstrates advanced preparation in the methods and techniques of formulating and solving problems		demonstrates preparation for formulating and solving problems, based on advanced knowledge of physical phenomena			[SW1] Assessment of factual knowledge		
	[K6_U04] formulates logical solutions to complex or unstructured problems		formulates correct conclusions based on the analysis of complex physical phenomena			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Mechanics Optics Warm Vibrating and wave motion Statistical physics Atomic physics Nuclear physics Quantum mechanics							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Final exam		50.0%		65.0%			
	Laboratories		50.0%			35.0%		
Recommended reading	Basic literature		D. Halliday, R. Resnick and J. Walker, Podtsawy fizyki, PWN tom 1-5 Feynmana Wykłady z Fiizyki, PWN Warszawa J. Orear, Fizyka, 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		Adresy na platformie eNauczanie: Fizyka_Techniczna_ZiE-2024 - Moodle ID: 37495 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37495					

Example issues/ example questions/ tasks being completed	Mechanics laws
Work placement	Not applicable