

§ GDAŃSK UNIVERSITY § OF TECHNOLOGY

Subject card

Subject name and code	TECHNICAL PHYSICS, PG_00061442								
Field of study	Engineering Management								
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	Part-time studies (on-line)		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	Zakład Spektroskopii Układów Złożonych -> Instytut Fizyki i Informatyki Stosowanej -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Erdmann						
	Teachers dr inż. Ewa Erdmann								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	boratory Project		Seminar	SUM	
	Number of study hours	16.0	0.0	16.0 0.0			0.0	32	
	E-learning hours included: 24.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study 32 hours			7.0		111.0		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_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			
	[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			
Subject contents	Mechanics Optics Warm Vibrating and wave motion Statistical physics Atomic physics Nuclear physics Quantum mechanics								
Prerequisites									
And co-requisites	Cubicat passin		Dees			Der		a final anada	
and criteria	final exam		Passing threshold		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 Fiizyki, PWN Warszawa J. Orear, Fizyka, WNT, Tom 1 i 2 Paul G. Hewitt, Fizyka wokół nas, PWN Warszawa I. W. Sawieliew, Wykłady z Fizyki, PWN, Tom 1-3							
	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 - Moodle ID: 37372 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37372
Example issues/ example questions/ tasks being completed	The laws of classical mechanics	
Work placement	Not applicable	