



Subject card

Subject name and code	Technical Physics, PG_00068479						
Field of study	Engineering Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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		at the university		
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	Division Of Complex Systems Spectroscopy -> Institute Of Physics And Applied Computer Science -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	16.0	0.0	16.0	0.0	0.0	32
	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	32		6.0		112.0	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] develops logical solutions to complex or unstructured problems, even under conditions of uncertainty.		formulates correct conclusions based on the analysis of complex physical phenomena		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving.		demonstrates preparation for formulating and solving problems, based on advanced knowledge of physical phenomena		[SW1] Assessment of factual knowledge		
Subject contents	Mechanics Optics Wave 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%		50.0%		
	laboratories		50.0%		50.0%		
Recommended reading	Basic literature		D. Halliday, R. Resnick and J. Walker, Podstawy fizyki, PWN tom 1-5 Feynmana Wykłady z Fizyki, 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:
Example issues/ example questions/ tasks being completed	The laws of classical mechanics	
Work placement	Not applicable	

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