

Subject card

Subject name and code	TECHNICAL PHYSICS, PG_00061324								
Field of study	Engineering Management								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
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	6.0		
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Instytut Fizyki i Informatyki Stosowanej -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Patrycja Stefańska-Ptaszek						
	Teachers								
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		60	
	E-learning hours included: 2.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		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 out	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									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Laboratories		50.0%			35.0%			
	Final exam		50.0%			65.0%			
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 addresse	Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed	Mechanics laws								
Work placement	Not applicable	Not applicable							

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