

Subject card

Subject name and code	TECHNICAL PHYSICS, PG_00061391								
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		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	Department of Atomic, Molecular and Optical Physics -> Faculty of Applied Physics and Mathematics						ematics		
Name and surname	Subject supervisor		dr inż. Ireneusz Linert						
of lecturer (lecturers)	Teachers	dr inż. Ireneusz Linert							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	32		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									
Assessment methods			Passing threshold			Percentage of the final grade			
and criteria	Final exam		50.0%		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						
	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: Interesująca Fizyka Techniczna - ZIE - Lato 2023/24 - Moodle ID: 20459 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20459						

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

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