

Subject card

Subject name and code	Physics 2, PG_00042008								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Solid State Physics -> Faculty of Applied Physics and Mathematics								
Name and surname	Subject supervisor		dr hab. inż. Małgorzata Śmiałek-Telega						
of lecturer (lecturers)	Teachers		dr inż. Joanna Grochowalska						
			mgr inż. Irena Dziwisz-Olszak						
			mgr inż. Jacek Frost						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
	Fizyka_laboratorium_Energetyka_2021_2022 - Moodle ID: 19158 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19158								
	Additional information: Coure will be run through the Moodle platform								
Learning activity and number of study hours	Learning activity	Participation i classes includ plan				Self-study		SUM	
	Number of study hours	30				17.0		50	
Subject objectives	Acquisition of practical skills in selected branches of physics, both classical and modern. Acquiring the skills of qualitative understanding of selected principles and laws of classical physics and modern and quantitative analysis of selected phenomena in this area Understanding the basic techniques and methods of measurement of selected physical								
Learning outcomes	Course out	come	Subj	Subject outcome		Method of verification			
	K6_W02					[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	K6_K01		[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness			f ability to f ability to arise in f including s			
Subject contents	Experiments are based on kinematics, dynamics, simple harmonic motion, wave motion, acoustic, optics, electrostatics and magnetostatics.								
Prerequisites and co-requisites	Course is dedicated for students who taken high school physics and mathematics at extended level passed the exam of "Introduction to physics"								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	All experiments must be done correctly	50.0%	100.0%		
Recommended reading	Basic literature	1. D. Halliday, R. Resnick, Fundamentals of Physics, Wiley, any edition			
	Supplementary literature	1. M.Herman, A.Kalestyński, L.Widomski: "Podstawy fizyki dla kandydatów na wyższe uczelnie", Państwowe Wydawnictwo Naukowe.			
	eResources addresses	Fizyka_laboratorium_Energetyka_2021_2022 - Moodle ID: 19158 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19158			
Example issues/ example questions/ tasks being completed	Determining the density of liquids Spring constant determination Resistance determination MEchanical waves investigations Mathematical pendulum				
Work placement	Not applicable				

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