

Subject card

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Subject name and code	Physics 2, PG_00042031							
Field of study	Power Engineering							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027		
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			English		
Semester of study	3		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Faculty of Ocean Eng							
Name and surname	Subject supervisor	dr hab. inż. Małgorzata Śmiałek-Telega						
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory P		Projec	ect Seminar		SUM
of instruction	Number of study hours	0.0	0.0	30.0	0.0		0.0	30
	E-learning hours inclu	ıded: 0.0					-	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study		SUM
	Number of study hours	30		5.0		15.0		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	Subject outcome			Method of verification			
	[K6_U01] can obtain information from literature and other sources, organize, interpret it and draw and formulate conclusions; has the ability to self-educate, interprets the results of completed engineering tasks, is able to design simple energy systems and their systems							
	electricity and magnetism), chemistry, technical thermodynamics, fluid mechanics and general mechanics needed to understand and describe the basic phenomena occurring in devices and systems, energy plants and transmission networks and their environment		The student has a basic knowledge of physics, technical thermodynamics and fluid mechanics necessary to understand the basic phenomena needed to perform exercises in the physics laboratory.			[SW3] Assessment of knowledge contained in written work and projects		
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"							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Physics laboratory		67.0%			100.0%	0	
Recommended reading	Basic literature		Małgorzata Śmiałek-Telega, Fizyka dlaStudentów Wydziału Oceanotechniki i Okrętownictwa, Instrukcje do ćwiczeń laboratoryjnych. D. Halliday, R. Resnick, Fundamentals of Physics, Wiley, any edition					

	Supplementary literature	M.Herman, A.Kalestyński, L.Widomski: "Podstawy fizyki dla kandydatów na wyższe uczelnie", Państwowe Wydawnictwo Naukow E-experiments in physics			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Determining the density of liquids Examination of the electric field distribution Measurement of the basic period of a mathematical pendulum.				
	Millikan's Experiment The study of bodies on an inclined plane - determination of the coefficient of static friction				
Work placement	Not applicable				

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