

## 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 2024		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	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	ineering and S						
Name and surname	Subject supervisor	dr hab. inż. Małgorzata Śmiałek-Telega						
of lecturer (lecturers)	Teachers							
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 inclu	ided: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes including 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			
	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		
	[K6_U01] can obtain from literature and of organize, interpret it formulate conclusion ability to self-educate the results of comple engineering tasks, is design simple energy their systems	her sources, and draw and s; has the e, interprets ted able to						
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 and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Physics laboratory		67.0%			100.0%	, ,	
Recommended reading	Basic literature		Małgorzata Śmiałek-Telega, Fizyka dlaStudentów Wydziału Oceanotechniki i Okrętownictwa, Instrukcje do ćwiczeń laboratoryjnyc D. Halliday, R. Resnick, Fundamentals of Physics, Wiley, any edition			oratoryjnych.		

Data wydruku: 18.07.2024 08:51 Strona 1 z 2

	Supplementary literature	M.Herman, A.Kalestyński, L.Widomski: "Podstawy fizyki dla kandydatów na wyższe uczelnie", Państwowe Wydawnictwo Naukowe.      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				

Data wydruku: 18.07.2024 08:51 Strona 2 z 2