

Subject card

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Subject name and code	Physics 2, PG_00042031							
Field of study	Power Engineering, Power Engineering							
Date of commencement of studies	October 2023		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			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	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 include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0				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							
	of physics (including electricity and magne chemistry, technical thermodynamics, flui and general mechani understand and desc phenomena occurring and systems, energy	of physics (including optics, electricity and magnetism), chemistry, technical hermodynamics, fluid mechanics and general mechanics needed to understand and describe the basic obtenomena occurring in devices and systems, energy plants and ransmission networks and their		l		[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%		
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			oratoryjnych.		

Data wydruku: 19.05.2024 17:02 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: 19.05.2024 17:02 Strona 2 z 2