

Subject card

	Dhuring 2, DC, 00040034								
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	hip Technology							
Name and surname	Subject supervisor	dr hab. inż. Małgorzata Śmiałek-Telega							
of lecturer (lecturers)	Teachers		5						
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	<u> </u>		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 is consultation h			udy	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	come	Subject outcome			Method of verification			
	[K6_W02] has a basi of physics (including electricity and magne chemistry, technical thermodynamics, flui and general mechan understand and desciphenomena occurrin and systems, energy transmission network 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	ther 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	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Physics laboratory	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						

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	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				

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