

Subject card

Subject name and code	Physics 2, PG_00042031								
Field of study	Power Engineering, Power Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
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 Engineering and Ship Technology								
Name and surname	Subject supervisor		dr hab. inż. Małgorzata Śmiałek-Telega						
of lecturer (lecturers)	Teachers	dr hab. inż. Małgorzata Śmiałek-Telega							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 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	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 outcome Subject outcome Method of verification					ification			
	[K6_W02] has a basic knowledge of physics (including optics, 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			
	[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								
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		Pass	ing threshold		Percentage of the final grade			
	Physics laboratory	ysics laboratory				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							

Data wydruku: 06.05.2024 04:12 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: PG_00042031 PHYSICS 2-ET- 23/24 - Moodle ID: 33040 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33040			
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: 06.05.2024 04:12 Strona 2 z 2