

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Physics 2, PG_00042031								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering, Power Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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	Department of Contro	ngineering -> Faculty of Ocean Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Klaudia Wrzask							
	Teachers dr inż. Klaudia Wrzask								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: Physics 2 2021/22 - Moodle ID: 15278 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=15278								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stud plan		Participation in consultation hours		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 outcome		Subject outcome			Method of verification			
	K6_W02		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_K01		The student in the field of physics is aware of the need for further training and self-improvement.			[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work			
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 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 2. E-experiments in physics 			
	eResources addresses	Physics 2 2021/22 - Moodle ID: 15278 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=15278			
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				