

Subject card

Subject name and code	Physics II, PG_00039779								
Field of study	Materials Engineering, Materials Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject		2021/2022				
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study				
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			7.0			
Learning profile	general academic profile		Assessmer	ssessment form			exam		
Conducting unit	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics								
Name and surname	Subject supervisor		dr hab. inż. Jakub Karczewski						
of lecturer (lecturers)	Teachers		dr inż. Karolina Górnicka						
			Karolina Milewska						
			dr hab. inż. Jakub Karczewski						
			Daniel Jaworski						
			dr inż. Marta Prześniak-Welenc						
			dr inz. Marta	Przesniak-wei	enc				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	30.0	30.0	30.0	0.0	0.0		90	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: Fizyka II (WFTiMS+WIMiO) - Moodle ID: 23422 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23422 Fizyka II (WFTiMS+WIMiO) - Moodle ID: 23422 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23422								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	90		10.0		75.0		175	
Subject objectives	Getting to know the b technical issues base			. Acquiring the	ability to	analyz	ze physical p	henomena and	

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Learning outcomes	Course outcome	Subject outcome	Method of verification	
	K6_U05	The student has acquired the ability to independently deepen his knowledge of physics	[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information	
	K6_U01	The student knows how to plan, perform and interpret simple physical experiments showing the validity of the basic laws of physics.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information	
	K6_K01	The student understands the need to deepen his knowledge of physics, learned the methods of science and ways of acquiring knowledge	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness	
	K6_W02	The student is able to explain and interpret basic physical phenomena based on the laws of physics.	[SW1] Assessment of factual knowledge	
Subject contents				
	Kinematics2. dynamics, rules of waves and optics7. thermodynamic	behavior3. relativistic mechanics4. a res	rigid body5. harmonic vibrations6.	
Prerequisites and co-requisites				
	basic knowledge of mathematics a	t high school level		
Assessment methods			Percentage of the final grade	
Assessment methods and criteria	Subject passing criteria classes with problem solving	Passing threshold 50.0%	Percentage of the final grade 40.0%	
	Subject passing criteria	Passing threshold		
	Subject passing criteria classes with problem solving	Passing threshold 50.0%	40.0%	
	Subject passing criteria classes with problem solving lecture exam	Passing threshold 50.0% 50.0%	40.0% 40.0% 20.0% dla inżynierów" Wydawnictwa 005 domski, "Podstawy fizyki dla	
and criteria	Subject passing criteria classes with problem solving lecture exam laboratory	Passing threshold 50.0% 50.0% 50.0% 50.0% J. Massalski, M. Massalska "Fizyka Naukowo-Techniczne, Warszawa 2 M.A. Herman, A. Kalestyński, L. Wikandydatów na wyższe uczelnie i st	40.0% 40.0% 20.0% dla inżynierów" Wydawnictwa 005 domski, "Podstawy fizyki dla tudentów: Wydawnictwo Naukowe	
and criteria	Subject passing criteria classes with problem solving lecture exam laboratory Basic literature	Passing threshold 50.0% 50.0% 50.0% J. Massalski, M. Massalska "Fizyka Naukowo-Techniczne, Warszawa 2 M.A. Herman, A. Kalestyński, L. Wikandydatów na wyższe uczelnie i st PWN Warszawa 2009 Cz. Bobrowski Fizyka krótki kurs, W	40.0% 20.0% dla inżynierów" Wydawnictwa 005 domski, "Podstawy fizyki dla tudentów: Wydawnictwo Naukowe //ydawnictwa Naukowo-Techniczne,	
and criteria	Subject passing criteria classes with problem solving lecture exam laboratory Basic literature	Passing threshold 50.0% 50.0% 50.0% J. Massalski, M. Massalska "Fizyka Naukowo-Techniczne, Warszawa 2 M.A. Herman, A. Kalestyński, L. Wikandydatów na wyższe uczelnie i st PWN Warszawa 2009 Cz. Bobrowski Fizyka krótki kurs, Wwarszawa 2005 J. Walker Podstawy fizyki, Zbiór zac	40.0% 20.0% dla inżynierów" Wydawnictwa 005 domski, "Podstawy fizyki dla tudentów: Wydawnictwo Naukowe //ydawnictwa Naukowo-Techniczne, dań, Wydawnictwo Naukowe PWN, lle ID: 23422 e/course/view.php?id=23422 lle ID: 23422	
and criteria	Subject passing criteria classes with problem solving lecture exam laboratory Basic literature Supplementary literature eResources addresses 1. Kinematics: basic concepts and relativity of motion.2. Dynamics: the dynamics of translational movemen mechanics: work, energy and power	Passing threshold 50.0% 50.0% 50.0% J. Massalski, M. Massalska "Fizyka Naukowo-Techniczne, Warszawa 2 M.A. Herman, A. Kalestyński, L. Wikandydatów na wyższe uczelnie i st PWN Warszawa 2009 Cz. Bobrowski Fizyka krótki kurs, W Warszawa 2005 J. Walker Podstawy fizyki, Zbiór zac Warszawa 2005 Fizyka II (WFTiMS+WIMiO) - Mood https://enauczanie.pg.edu.pl/moodl Fizyka II (WFTiMS+WIMiO) - Mood Fizyka II (WFTiMS+WIMiO) - Mood	40.0% 40.0% 20.0% dla inżynierów" Wydawnictwa 005 domski, "Podstawy fizyki dla tudentów: Wydawnictwo Naukowe //ydawnictwa Naukowo-Techniczne, dań, Wydawnictwo Naukowe PWN, lle ID: 23422 e/course/view.php?id=23422 lle ID: 23422 er motion; uniformly variable motion; ion-inertial frames of reference; inciples of conservation in rgy; momentum; the principle of	

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