

Subject card

Subject name and code	Physics, PG_00044539								
Field of study	Transport								
Date of commencement of studies	October 2024		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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			6.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Solid State Physics -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor dr inż. Anna Rybicka								
	Teachers		mgr inż. Piotr Okoczuk						
			dr inż. Anna Rybicka						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
of instruction	Number of study hours	30.0	45.0	0.0	0.0		0.0	75	
	E-learning hours included: 0.0								
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	75		5.0		70.0		150	
Subject objectives	Learning the basic laws of classical physics. Developing of ability to analyze physical phenomena and solving technical problems based on the physical laws.								
Learning outcomes	Course outcome Subject outcome Method of verification				erification				
Subject contents	Kinetics of progressive and rotational motion. Newton's principles.Dynamisc of progressive and rotational motion. Work and energy. Principles of conservation of momentum and energy.								
	Harmonic and wave motion.								
	Electrostatic. Coulomb's and Gauss's laws,								
	Electric current. Ohm's and Kirchhoff's laws.								
	The magnetic fiels. Ampere's, Biot's - Savart's and Faraday's laws.								
	Maxwell's exuations.								
Prerequisites and co-requisites	Course for Students, who completed mathematisc and physics at the advanced level in the secondary school.								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Test 1	50.0%	30.0%				
	Exam	50.0%	40.0%				
	Test 2	50.0%	30.0%				
Recommended reading	Basic literature	e-book "University Physics" (www.ftims.pg.edu.pl/Studenci/Materiały dydaktyczne) D.Halliday, R.Resnick, J.Walker, "Fundamentals of physics", Jon Willey					
		&Sons, 2001					
	Supplementary literature	J.Orear, "Physics", Macmillan Publishing Co.					
	eResources addresses	Adresy na platformie eNauczanie: FIZYKA I_TRANSPORT_24/25 - Moodle ID: 38875 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38875					
Example issues/ example questions/ tasks being completed	Equations of motion in the gravitational field.						
	Elastic and inelastic collisions.						
	Moment of inertia of the rigid body.						
	Mathematical and physucal pendulum.						
	Electric field strenght and potential. Field superposition.						
	Movement of charge in an electric and magnetic fields.						
	Magnetic field around a current carrying conductor.						
Work placement	Not applicable						

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