



Subject card

Subject name and code	Physics, PG_00018183						
Field of study	Chemistry in Construction Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2020/2021		
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	2	ECTS credits			6.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Theoretical Physics and Quantum Information -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Erdmann				
	Teachers		dr inż. Ewa Erdmann				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	15.0	0.0	0.0	60
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13461 Adresy na platformie eNauzanie: Fizyka sem.2 - Moodle ID: 13461 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13461						
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	60		5.0		85.0	150
Subject objectives	Introduction to elementary methods and structures of physics						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W02		Knows fundamental physical structures and is able to solve concrete models		[SU1] Assessment of task fulfilment		
	K6_U02		Lab exercise learn to solve physics problems in groups and individually		[SU2] Assessment of ability to analyse information		

Subject contents	<p>Oscillations</p> <p>Waves</p> <p>Acoustics</p> <p>Fluid mechanics</p> <p>Kinetic theory of gases</p> <p>Thermodynamics</p> <p>Electric field</p> <p>Electric current</p> <p>Magnetic field</p> <p>Electric network</p> <p>Geometric optics</p> <p>Wave optics</p> <p>Old quantum theory</p> <p>Atomic structure</p>														
Prerequisites and co-requisites	Passing the subject "physics"														
Assessment methods and criteria	<table border="1"> <thead> <tr> <th>Subject passing criteria</th> <th>Passing threshold</th> <th>Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>exercises</td> <td>51.0%</td> <td>30.0%</td> </tr> <tr> <td>exam</td> <td>51.0%</td> <td>50.0%</td> </tr> <tr> <td>lab</td> <td>51.0%</td> <td>20.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	exercises	51.0%	30.0%	exam	51.0%	50.0%	lab	51.0%	20.0%
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Example issues/ example questions/ tasks being completed	<p>Gauss law for electric field and an example of its use.</p> <p>Properties of the Hydrogen atom spectrum.</p> <p>Calculation of measurement error using exact differential method</p>														
Work placement	Not applicable														