

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	6.0		
Learning profile	general academic profile		Assessmer	Assessment form			exam		
Conducting unit	Department of Theoretical Physics and Quantum Information -> Faculty of Applied Physics and Mathematics								
Name and surname	Subject supervisor		dr inż. Ewa Erdmann						
of lecturer (lecturers)	Teachers		dr inż. Ewa E						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	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 eNauczanie: 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 classes include plan			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			

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Subject contents	Oscillations							
	Waves							
	Acoustics							
	Fluid mechanics							
	Kinetic theory of gases							
	Thermodynamics							
	Electric field							
	Electric current							
	Magnetic field							
	Electric network							
	Geometric optics							
	Vave optics							
	Old quantum theory							
	Atomic structure							
Droroguisitos	Passing the subject "physics"							
Prerequisites and co-requisites	assing the subject physics							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	exercises	51.0%	30.0%					
	exam	51.0%	50.0%					
	lab	51.0%	20.0%					
Recommended reading	Basic literature Dawid Halliday, Robert Resnick, Jearl Walker, Podstawy F							
r to commona ou rouding		3 i 4, PWN, Warszawa 2006.						
	Cz. Bobrowski. Fizyka. Krótki kurs. WNT, Warszawa (dowolne							
		wydanie).	WINT, Warszawa (dowonie					
		Berkeley course of physics						
	Supplementary literature eResources addresses							
	Fizyka sem.2 - Moodle ID: 13461 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13461							
Example issues/	Gauss law for electric field and an example of its use.							
example questions/								
tasks being completed								
	Properties of the Hydrogen atom spectrum.							
	Calculation of measurement error using exact differential method							
Work placement	Not applicable							
Work placement								

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