

## Subject card

Subject name and code	Physics, PG_00018183							
Field of study	Chemistry in Construction Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023		
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							
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							
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 laws of physics							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_U02		Lab exercise allow to solve experimental physics problems in groups and individually			[SU2] Assessment of ability to analyse information		
	K6_W02		Knows fundamental physical laws and is able to solve concrete models			[SU1] Assessment of task fulfilment		

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Subject contents	Acoustics								
	Fluid mechanics								
	Analysis of physical measurements								
	Kinetic theory of gases								
	Thermodynamics								
	Electric field								
	Electric current								
	Magnetic field								
	Electric network  Geometric optics								
	Wave optics								
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	Old quantum theory								
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	Atomic structure								
	Solid state physics								
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Prerequisites	Passing the subject "physics"								
and co-requisites									
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade						
and Chiena	lab	51.0%	20.0% 50.0%						
	exam	51.0% 51.0%	30.0%						
Pocommonded reading	Basic literature	Dawid Halliday, Robert Resnick, Jearl Walker, Podstawy Fizyki, tomy 2,							
Recommended reading	Dasic incrature	3 i 4, PWN, Warszawa 2006.							
	Cz. Bobrowski. Fizyka. Krótki kurs. WNT, Warszawa (dowolne wydanie).								
	Supplementary literature	Berkeley course of physics							
	"University Physics" openstax, 2018								
	eResources addresses Adresy na platformie eNauczanie:								
Example issues/	Gauss law for electric field and an example of its use.								
example questions/	ks being completed  Properties of the Hydrogen atom spectrum.								
asing sompleted									
	Calculation of measurement error u	alculation of measurement error using exact differential method							
Work placement		Not applicable							

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