

Subject card

Subject name and code	, PG_00059030								
Field of study	Materials Engineering, Materials Engineering, Materials Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			7.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Division of Ceramics -> Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics								
Name and surname	Subject supervisor	z Miruszewski							
of lecturer (lecturers)	Teachers							+	
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	30.0	30.0	15.0	0.0		0.0	75	
	E-learning hours included: 0.0								
	Additional information: E-Learning course:								
Learning activity and number of study hours	Learning activity Participation in classes includ plan				Self-study SUM		SUM		
	Number of study hours	75		10.0		90.0		175	
Subject objectives	Acquiring knowledge in the field of electricity and magnetism.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_K01		Student is able to determine basic problems in the field of electricity and magnetism. Can understand the need for further education.			[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills			
	K6_W02		The student uses commonly used mathematical notation in physical calculations and solves physical problems. Is able to explain basic concepts of physics			[SW1] Assessment of factual knowledge			
	K6_U05		The student is able to use various sources of knowledge and learn independently.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information			
	K6_U01		Student is able to perform basic measurements in the field of electricity and magnetism.			[SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
Subject contents	Electric field issues, magnetic phenomena.								

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Prerequisites and co-requisites	knowledge of physics from the previous semester					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	laboratory	50.0%	20.0%			
	accounting classes	50.0%	40.0%			
	exam	50.0%	40.0%			
Recommended reading	Basic literature	M.A. Herman A. Kalestyński, L. Widomski "Podstawy fizyki dla kandydatów na wyższe uczelnie i studentów" PWN J. Massalski "Fizyka dla inżynierów" NT Fizyka, tom 2, wyd. OpenStax				
	Supplementary literature	D. Halliday, R. Resnick, J. Walker Podstawy fizyki,PW				
	eResources addresses Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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