

Subject card

Subject name and code	Electricity and magnetism, PG_00058879							
Field of study	Nanotechnology							
Date of commencement of	October 2023		Academic year of			2024/2025		
studies			realisation of subject					
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			6.0		
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 of lecturer (lecturers)	Subject supervisor	dr inż. Tadeusz Miruszewski						
	Teachers		dr inż. Sebastian Wachowski					
			dr inż. Leszek Wicikowski					
			dr inż. Marek Chmielewski					
			dr inż. Tadeu	i				
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:							
Looming optivity	E-Learning course will be available at the beggining of the semester. Learning activity Participation in didactic Participation in Self-study						udv	SUM
Learning activity and number of study hours	Learning activity Participation in classes includ plan				Sell-St	uuy	SOW	
	Number of study hours	75		5.0		70.0		150
Subject objectives	Acquiring knowledge in the field of electricity and magnetism.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_W03		The student uses commonly used mathematical notation in physical calculations and solves physical problems. Is able to explain basic concepts of physics.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
						[SW1] Assessment of factual knowledge		
	K6_U01		The student is able to use various			[SU3] Assessment of ability to		
	_		sources of knowledge and learn independently.			use knowledge gained from the subject		
						[SU4] Assessment of ability to use methods and tools		
						[SU2] Assessment of ability to		
	K6_W01		The student is able to determine basic problems in the field of electricity and magnetism. Can understand the need for further education.			analyse information [SW1] Assessment of factual knowledge		
	K6_U04		the student is able to perform basic measurements in the field of electricity and magnetism.			[SU2] Assessment of ability to		
						analyse information [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:				
		Elektryczność i magnetyzm_ Nanotechnologia_ 2024/2025 - Moodle ID: 41654 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41654				
Example issues/ example questions/ tasks being completed	- Explain the Gauss law with some chosen examples. - Give a definition of electric current.					
Work placement	Not applicable					

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