

Subject card

	Electricity and magnetism, PG_00058879							
Field of study	Nanotechnology							
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			6.0		
Learning profile	general academic profile		Assessment form			exam		
	Zakład ceramiki -> Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tadeusz Miruszewski						
	Teachers		dr inż. Leszek Wicikowski dr inż. Kamil Kolincio					
			dr inż. Tadeusz Miruszewski					
		dr inż. Sebastian Wachowski						
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: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33097							
Learning activity and number of study hours	Learning activity	Participation in classes include plan	n didactic Participation in				SUM	
	Number of study hours	75		5.0		70.0		150
Subject objectives	Acquiring knowledge in the field of electricity and magnetism.							
Learning outcomes	Course out	Subject outcome			Method of verification			
	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		
	K6_W01		The student is able to determine basic problems in the field of electricity and magnetism. Can understand the need for further education.			[SW1] Assessment of factual knowledge		
	K6_U01		The student is able to use various sources of knowledge and learn independently.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	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		
Subject contents	Electric field issues, magnetic phenomena.							

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Prerequisites and co-requisites	knowledge of physics from the previous semester					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	exam	50.0%	40.0%			
	accounting classes	50.0%	40.0%			
	laboratory	50.0%	20.0%			
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	Uzupełniające				
	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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