

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Electricity and magnetism, PG_00061906								
Field of study	Materials Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
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		Assessme	sessment 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. Leszek Wicikowski dr inż. Marek Chmielewski dr inż. Tadeusz Miruszewski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	15.0	30.0	0.0		0.0	75	
	E-learning hours included: 0.0								
	Additional information: E-Learning course will be available at the beginning of the semester.								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stue plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	75		10.0		65.0		150	
Subject objectives	Acquiring knowledge in the field of electricity and magnetism.								

s e d fu n p [ŀ ir c o	K6_U01] Can properly use selected analytical, simulation and experimental methods, as well as devices for measuring the undamental properties of materials and technological	the student is able to perform basic measurements in the field of electricity and magnetism.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to			
ir c o	processes.		analyse information			
ea	K6_K01] Understands the need to mprove professional and personal competencies; is conscious of own limitations and knows when o turn to experts, properly establishes priorities helping to accomplish tasks defined by oneself or others.	The student uses commonly used mathematical notation in physical calculations and solves physical problems. Is able to explain basic concepts of physics.	[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice			
1	K6_U05] can learn independently	The student is able to use various sources of knowledge and learn independently.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
p fc p	K6_W02] has knowledge of ohysics and chemistry, useful for formulating and solving simple problems within the scope of materials science	The student uses commonly used mathematical notation in physical calculations and solves physical problems. Is able to explain the basic concepts of electricity and magnetism.	[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 pheno	omena.				
and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
	aboratory	50.0%	20.0%			
а	accounting classes	50.0%	40.0%			
le	exam	50.0%	40.0%			
Recommended reading Ba	asic literature	M.A. Herman A. Kalestyński, L. Widomski "Podstawy fizyki d kandydatów na wyższe uczelnie i studentów" PWN				
		J. Massalski "Fizyka dla inżynierów" NT				
		Fizyka, tom 2, wyd. OpenStax				
S	upplementary literature	D. Halliday, R. Resnick, J. Walker Podstawy fizyki,PW				
eF	Resources addresses	Podstawowe				
		http://brak - The link will be available after the semester will start.				
		Adresy na platformie eNauczanie:				
		Elektryczność i magnetyzm_ Nanotechnologia_Inżynieria Materiałowa_ 2024/2025 - Moodle ID: 41654 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41654				
Example issues/ example questions/ tasks being completed						
Work placement	lot applicable					

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