

## 关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

## Subject card

Subject name and code	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	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	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						
	Lesson type Lecture		dr inż. Kamil Kolincio						
			dr inż. Tadeusz Miruszewski						
			dr inż. Sebastian Wachowski						
Losson types and methods			Tutorial Laboratory Project			+	Seminar	SUM	
Lesson types and methods 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:								
La construir a chiaitea	E-Learning course: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33097 Learning activity Participation in didactic Participation in Self-study					SUM			
Learning activity and number of study hours	Learning activity Participation ir classes includ plan						SUM		
	Number of study hours	75	75		5.0			150	
Subject objectives	Acquiring knowledge in the field of electricity and magnetism.								
Learning outcomes	Course outcome		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.								

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					