

Subject card

Cubic at a successful and a	Dielectric Materials, PG_00035137							
Subject name and code								
Field of study	Nanotechnology							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			1.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Natalia Wójcik					
	Teachers dr hab. inż. Natalia Wójcik							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec			SUM
	Number of study hours	15.0	0.0	0.0	0.0		0.0	15
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	g activity Participation in classes include plan		Participation in consultation hours		Self-study SUM		SUM
	Number of study hours	15		0.0		0.0		15
Subject objectives	Learning about the modern amorphous materials and technological issues associated with their use.							
Learning outcomes	Course outcome Subject outcome Method of verification					ification		
	K6_W06							
	K6_W07							
Subject contents	 Electrical properties of dielectrics - basic concepts. Macroscopic properties of dielectrics. Electrical properties of dielectrics - dielectric polarization mechanisms Electrical conduction mechanisms in dielectrics Dielectric in the alternating electric field - the description in the frequency domain. Dielectric in the alternating electric field - a time domain. Measurements of electrical parameters of dielectrics Impedance spectruscopy in use Dielectrics with special properties Basic applications dielectrics. 							
Prerequisites and co-requisites								
Assessment methods and criteria	Subject passing criteria		Pass	Passing threshold		Percentage of the final grade		
	Colloquium		51.0%	51.0%			100.0%	
Recommended reading	mmended reading Basic literature		Fizyka dielektryków, A. Chełkowski; PWN, 1972, 1993. Elektrolity Stałe, Władysław Bogusz, Franciszek Krok; WNT, 1995.					
	Supplementary literature		None					
	eResources addresses		Adresy na platformie eNauczanie: Materiały dielektryczne - Moodle ID: 37750 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37750					
Example issues/ example questions/ tasks being completed	Describe process of orientational polarization.							
Work placement	Not applicable							

Data wydruku: 03.05.2024 21:48 Strona 1 z 1