



Subject card

Subject name and code	Functional Materials II, PG_00039626						
Field of study	Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Solid State Physics -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Maria Gazda				
	Teachers		dr inż. Sebastian Wachowski prof. dr hab. inż. Wojciech Sadowski prof. dr hab. inż. Maria Gazda				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	15.0	45
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		5.0		25.0	75
Subject objectives	New materials and technologies for energy conversion and date storage						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_W03		student has knowledge in physics chemistry and mathematics for solving problems in materials science		[SW1] Assessment of factual knowledge		
	[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language		is prepared for activities in English		[SK4] Assessment of communication skills, including language correctness		
	K7_W07		student has knowledge about new trends in materials science		[SW2] Assessment of knowledge contained in presentation		
	K7_K01		student understands necessity of permanent learning		[SK2] Assessment of progress of work		
Subject contents	Technologies and materials for photovoltaics Technologies and materials for hydrogen - and other energy sources Photonics Technologies and materials for data storage						
Prerequisites and co-requisites	no						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	seminar presentation and presence	51.0%	20.0%
	lab assesment	51.0%	20.0%
	written test	51.0%	60.0%
Recommended reading	Basic literature	scientific papers	
	Supplementary literature	eny	
	eResources addresses	Adresy na platformie eNauczanie: Materiały Funkcjonalne (2) - Moodle ID: 15185 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=15185	
Example issues/ example questions/ tasks being completed	antireflection materials materials for hydrogen storage		
Work placement	Not applicable		

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