

Subject card

Subject name and code	, PG_00052092								
Field of study	Nanotechnology								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group 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	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład fizyki nanomateriałów -> Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. i	dr hab. inż. Wojciech Sadowski						
	Teachers		prof. dr hab. inż. Wojciech Sadowski						
		dr hab. Agata Lisińska-Czekaj							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project S		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	0.0		15.0	15	
	E-learning hours included: 0.0								
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33617 specialized lectures								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stud plan		Participation in consultation hours		Self-st	udy	SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	Preparation for prepa	aring and writing	g a diploma the	esis.					
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U11		The student has the ability to prepare works, written studies and oral presentations on issues related to broadly understood materials engineering.			[SU5] Assessment of ability to present the results of task			
	K6_U08		The student is able to present basic facts in the field of materials engineering and nanotechnology in a popular way.			[SU3] Assessment of ability to use knowledge gained from the subject			
	K6_K05		The student is able to analyze and present the results of his or her work.			[SK2] Assessment of progress of work [SK4] Assessment of communication skills, including language correctness			

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Subject contents	Selected research issues of modern nanotechnology.						
	2. Selected aspects of scientific work (topic, analysis of literature and external sources, purpose of resear selection						
	research methodology and techniques)						
	 Methodology and formal requirements for the preparation of a diploma thesis Selected aspects of intellectual property protection. Presentation of research results. Preparation for the defense of the diploma thesis. 						
Prerequisites and co-requisites	Choosing the topic of the diploma thesis.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
		50.0%	30.0%				
		100.0%	30.0%				
		100.0%	40.0%				
Recommended reading	Basic literature	 Introduction to Nanotechnology. Ch.P. Poole Jr., F.J. Owens. Wiley. 2003. The Oxford Handbook of Nanoscience and Technology. Oxford Univ. Press. V.1,2,3. 2010. 					
	Supplementary literature	The Oxford Handbook of Nanoscience and Technology. Oxford Univ. Press. V.1,2,3. 2010.					
	Scientific journals related to nanotechnology available from the Library.		chnology available from the GUT				
	eResources addresses	Adresy na platformie eNauczanie:					
		Seminarium specjalnościowe 2023 - Moodle ID: 33617 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33617					
Example issues/ example questions/ tasks being completed		-					
Work placement	Not applicable						

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