

Subject card

Subject name and code	Diploma laboratory, PG_00063669								
Field of study	Nanotechnology								
Date of commencement of	October 2024	Academic year of			2027/2028				
studies	55.5501 EVE 1		realisation of subject			2021/2020			
Education level	first-cycle studies		Subject gro	oup		Option	Optional subject group		
			, 5 1			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			5.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics -> Wydziały Politechniki Gdańskiej						hematics ->		
Name and surname	Subject supervisor		dr hab. inż. Agnieszka Witkowska						
of lecturer (lecturers)	Teachers	,			_		,	-	
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	90.0	0.0		0.0	90	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes includ		Participation consultation I	•		udy	SUM	
	Number of study hours	90		10.0		25.0		125	
Subject objectives	The aim of the course is to acquire knowledge and practical skills necessary for the correct implementation of the tasks set in the diploma project - planning experiments, learning the principles of research methods and their practical carrying out, principles and methods of analysis of results and their presentation.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U09] can design and conduct the process of producing nanostructured materials.		The student, appropriate to the subject of the engineering project being carried out, has the ability to design, manufacture and analyze the properties of nanostructured systems and materials.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K6_U02] can analyze and solve simple scientific and technical problems based on possessed knowledge, applying analytical, numerical, simulation and experimental methods.		The student is able to analyze and solve a simple scientific and/or technical problem posed in the thesis of an engineering project based on the acquired knowledge and using the skills to apply analytical and/or numerical and/or simulation and/or experimental methods appropriate to the project topic.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
			The student is able to plan and conduct an experiment related to the diploma project, has the ability to process the obtained data and critically analyze the results, as well as draw appropriate conclusions.			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	of planning and conducting a physical experiment and critical		The student understands the structure and operation of physical instruments and measuring equipment and is able to plan an experiment to achieve the thesis goal. He or she possesses the knowledge to describe and justify the use of physical, chemical, and mechanical research methods.			[SW3] Assessment of knowledge contained in written work and projects			

Subject contents	The program includes elements of the student's individual work with the supervisor of the diploma project, as well as with a research team as part of the diploma thesis subject.					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Evaluation of the results obtained during the project implementation	50.0%	100.0%			
Recommended reading	Basic literature	Textbooks and publications agreed with the teacher taking care of the diploma project.				
	Supplementary literature	Textbooks and publications agreed with the teacher taking care of the diploma project.				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Issues and tasks consistent with the implemented engineering diploma project					
Work placement	Not applicable					

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