



Subject card

Subject name and code	, PG_00058866									
Field of study	Nanotechnology, Nanotechnology (joint Master's double-degree program)									
Date of commencement of studies	October 2024	Academic year of realisation of subject		2025/2026						
Education level	second-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	2		Language of instruction		English					
Semester of study	4		ECTS credits		1.0					
Learning profile	general academic profile		Assessment form		assessment					
Conducting unit	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology									
Name and surname of lecturer (lecturers)	Subject supervisor									
	Teachers									
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM			
	Number of study hours	0.0	0.0	0.0	0.0	15.0	15			
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	15		2.0		8.0	25			
Subject objectives	Preparation of the Student for undertaking and solving scientific and technical problems as well as for elaborating complete and reliable research reports.									
Learning outcomes	Course outcome		Subject outcome			Method of verification				
	K7_W03		Student acquires general knowledge about the current trends, directions of development and the newest discoveries in the field of nanotechnology and materials engineering.			[SW1] Assessment of factual knowledge				
	K7_U01		Student is able to analyze the problem posed in the diploma project and is able to work on a proposal for its solution/implementation, based on independently obtained and developed information from literature, databases and other available sources (available in English).			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information				
	K7_W09		Student has an extensive knowledge of professional English terminology in the field of physics, materials engineering and nanotechnology.			[SW3] Assessment of knowledge contained in written work and projects				
	K7_U10		Student has the ability to prepare a report in English on the results of their own research and an oral presentation showing the progress achieved at each stage of the project thesis.			[SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task				

Subject contents	<p>Course content – seminar Implementation of research tasks related to the selected topic of the diploma project in the team: student-project supervisor.</p> <p>Preparation of the MSc thesis manuscript in accordance with suitable standards and general guidelines.</p>									
Prerequisites and co-requisites	Completed and passed all courses from semesters 1-3.									
Assessment methods and criteria	<table border="1" data-bbox="449 350 1478 496"> <thead> <tr> <th data-bbox="449 350 779 384">Subject passing criteria</th><th data-bbox="779 350 1144 384">Passing threshold</th><th data-bbox="1144 350 1478 384">Percentage of the final grade</th></tr> </thead> <tbody> <tr> <td data-bbox="449 384 779 440">Realization of laboratory tasks related to the diploma project</td><td data-bbox="779 384 1144 440">100.0%</td><td data-bbox="1144 384 1478 440">50.0%</td></tr> <tr> <td data-bbox="449 440 779 496">Preparation and presentation of the MSc thesis</td><td data-bbox="779 440 1144 496">50.0%</td><td data-bbox="1144 440 1478 496">50.0%</td></tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Realization of laboratory tasks related to the diploma project	100.0%	50.0%	Preparation and presentation of the MSc thesis	50.0%	50.0%
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Recommended reading	<p>Basic literature</p> <p>[1] Nicholas Walliman, Research Methods, The Basics, Taylor & Francis Group, London and New York, 2011</p> <p>[2] Hugh G. Gauch Jr., Scientific Methods in Brief, Cambridge University Press, 2012</p> <p>Supplementary literature</p> <p>[1] Guidelines for Authors of diploma thesis and diploma projects for higher education studies at Gdańsk University of Technology written in polish or english.</p> <p>[2] Scientific literature and specialist reports related to the diploma project</p> <p>eResources addresses</p>									
Example issues/ example questions/ tasks being completed	<p>Cobalt (III) oxide particles and their redox reactions. Quantum calculations.</p> <p>Silicon-based precursors in parylene CVD functionalization. Quantum calculations.</p> <p>Iron (III) oxides in ionic liquids environment and the redox reactions. Quantum calculations.</p>									
Practical activites within the subject	Not applicable									

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