



Subject card

Subject name and code	Diploma seminar , PG_00071038						
Field of study	Nanotechnology						
Date of commencement of studies	February 2027	Academic year of realisation of subject			2027/2028		
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			Polish		
Semester of study	3	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	dr hab. inż. Agnieszka Witkowska					
	Teachers	dr hab. inż. Agnieszka Witkowska					
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	The Student is able to prepare and present a diploma presentation and actively participate in scientific discussion.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W03] has knowledge of current development trends and the latest discoveries in the fields of physics, chemistry, technology, and applications of nanostructures	By preparing a diploma presentation, participating in the presentations of group members and discussions on the presented content, the student gains knowledge about current developments and the latest discoveries in the field of nanotechnology and materials engineering.			[SW2] Assessment of knowledge contained in presentation		
	[K7_U01] is able to formulate hypotheses, plan and conduct experimental research, critically analyze results, verify hypotheses, draw conclusions, and formulate well-founded opinions within nanotechnology and related physical and natural sciences. Recognizes economic and non-technical aspects of the activities performed	The student is able to analyze the problem posed in the diploma project and to develop a concept for its solution/implementation based on independently obtained and developed information from the literature, databases and other available sources (available in English).			[SU2] Assessment of ability to analyse information		
	[K7_U07] has advanced skills in disseminating knowledge and communicating the results of own research in the form of oral presentations or written works in Polish and English	The student has the ability to prepare a report in English on the results of his/her own research and an oral presentation showing the progress achieved at each stage of the diploma project.			[SU5] Assessment of ability to present the results of task		

Subject contents	<p>Course content – seminar</p> <ol style="list-style-type: none"> 1. Main elements of public/oral presentation of the results of scientific work. 2. The main rules of understandable information transfer and the most common mistakes that should be avoided when preparing and presenting seminars. 3. The main elements of the diploma exam. 4. Preparation of the MSc diploma presentation and public/oral presentation of the diploma seminar. 5. Presentation of typical questions that may appear on the MSc exam. 											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 595 794 622">Subject passing criteria</th> <th data-bbox="799 595 1137 622">Passing threshold</th> <th data-bbox="1142 595 1469 622">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 629 794 678">Classes and consultations participation</td> <td data-bbox="799 629 1137 678">50.0%</td> <td data-bbox="1142 629 1469 678">20.0%</td> </tr> <tr> <td data-bbox="456 685 794 734">Preparing and presentation of diploma seminar</td> <td data-bbox="799 685 1137 734">100.0%</td> <td data-bbox="1142 685 1469 734">80.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Classes and consultations participation	50.0%	20.0%	Preparing and presentation of diploma seminar	100.0%	80.0%
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Preparing and presentation of diploma seminar	100.0%	80.0%										
Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>[1] Liam Lusk 2012 Presentation Skills: How To Make A Great Presentation, Published by L.Lusk, Kindle Edition</p> <p>[2] Nicholas Walliman 2011 Research Methods, The Basics, Taylor & Francis Group, London and New York</p> <p>Scientific literature and specialist reports related to the diploma project.</p>										
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Optimization of the process of porous gold nanoparticles formation 2. Non-stoichiometric electrodes with exsolved catalytically active oxide nanoparticles 3. Optimization of the fuel cell manufacturing process through the use of 3D printing 4. Quantum-chemical investigations of the generations of reactive oxygen species by titanium dioxide 5. Removal of heavy metal ions from wastewater using regenerable capsules based on nanostructured MgCaVO sorbents 6. Implementation of a hybrid MD+CVHD method and its application in studying the chemical vapor deposition of graphene 											
Practical activities within the subject	Not applicable											

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