GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2022	Academic year of realisation of subject	2023/2024
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	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Agnieszka Witkowska	
	Teachers	prof. dr hab. inż. Jarosław Rybicki dr hab. inż. Agnieszka Witkowska	

Lesson types and methods of instruction

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_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
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_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_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

<table>
<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Preparing and presentation of diploma seminar</td><td>100.0%</td><td>80.0%</td></tr>
<tr><td>Classes and consultations participation</td><td>50.0%</td><td>20.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>[1] Liam Lusk 2012 Presentation Skills: How To Make A Great Presentation, Published by L.Lusk, Kindle Edition

[2] Nicholas Walliman 2011 Research Methods, The Basics, Taylor & Francis Group, London and New York</td></tr>
<tr><td>Supplementary literature</td><td>Scientific literature and specialist reports related to the diploma project.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Diploma seminar - 2024 - Moodle ID: 36144
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36144</td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Optimization of dealloying process in the formation of porous nanoparticles of gold

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</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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