GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Diploma seminar, PG_00058950		
Field of study	Nanotechnology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2027/2028
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	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Wojciech Sadowski	
	Teachers		

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	1.0	9.0	25

Subject objectives

The aim of the course is to prepare the student for the completion of the diploma thesis, taking into account current issues related to nanotechnology and methodology of scientific work.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U11] can prepare dissertations, papers, oral presentations, in Polish and English, concerning detailed problems in physics and related fields and disciplines of science.	The student has the ability to prepare written papers and studies as well as oral presentations on specific issues in the field of physics and related fields and disciplines of science.	[SU1] Assessment of task fulfilment
[K6_K05] can present effects of their own work, provide information in a clear manner, communicate and self-evaluate, and give constructive feedback on the work of others.	The student is able to present the results of his/her work and perform self-assessment and constructive evaluation of the results of the work of others.	[SK2] Assessment of progress of work

Subject contents

1. Construction and preparation of the thesis.

2. Methodology of scientific work.

3. Introduction to the subject, literature review.

4. Analysis, form of presentation of research results.

5. Leading issues of modern nanotechnology.

6. Student presentations of their diploma thesis topic.

Prerequisites and co-requisites

Completion of all specialization subjects from semester 1-6.

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Participation in lectures on selected nanotechnology issues</td><td>50.0%</td><td>20.0%</td></tr>
<tr><td>Presentation 2: Analysis of the results of the thesis. Substantive assessment of the presentation.</td><td>100.0%</td><td>40.0%</td></tr>
<tr><td>Presentation 1: Introduction to the thesis topic. Substantive evaluation of the presentation.</td><td>100.0%</td><td>40.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Jarosław Zieliński. Metodologia pracy naukowej. W-wa, 2012</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Online resources - new trends in nanotechnology</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Introductory lecture: Research methodology, Structure and preparation of a thesis (Introduction to the topic, literature review, analysis, presentation of research results).

Monographic lecture: Leading issues in contemporary nanotechnology.

Introduction to the thesis topic (including a literature review and the current state of research) - student presentation No. 1.

Preliminary results of research conducted as part of the thesis - student presentation No. 2.</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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