GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Master's thesis, PG_00062934						
Field of study	Nanotechnology						
Date of commencement of studies	February 2025		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	Polish			
Semester of study	3		ECTS credits	14.0			
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	dr hab. inż. Agnieszka Witkowska					
	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	0.0	0
	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	0		30.0	320.0	350	
Subject objectives	Preparation of the Student for undertaking and solving scientific and technical problems as well as for elaborating complete and reliable research reports. Diploma project implementation and preparation of the diploma thesis.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U01] can learn individually, obtain knowledge and integrate information from literature, databases and other properly selected sources (in Polish and English). Has the ability of critical analysis and selection of information.	The student is able to analyze the problem defined in the diploma project and is able to prepare proposals for its solution/ realization, based on self-obtained and compiled information from literature, databases and other available sources (available mainly in English).	[SU2] Assessment of ability to analyse information
[K7_K04] can work systematically on long-term projects.	The student starts working on the diploma project as early as on the first semester of study and implementing it by the end of the last semester gains experience and skills related to planning and organizing systematic work on a long-term scientific-technical problem/project.	[SK3] Assessment of ability to organize work [SK2] Assessment of progress of work
[K7_U10] has enhanced ability to prepare Polish and English oral presentations, including those that contain the results of their own research, and the ability to write various papers.	The student has the ability to prepare in Polish and English a report on the results of own research and oralpresentation showing the progress achieved at various stages of the diploma project realization.	[SU5] Assessment of ability to present the results of task
[K7_U05] can plan and conduct experimental and critical research and analyze their results, draw conclusions and formulate reasoned conclusions – within their specialization.	The student realizing a diploma project of an experimental or experimental-computational nature has the ability to plan and perform research, analyze obtained data, correctly present and interpret results and to formulate physically correct conclusions.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools

Subject contents

Implementation of research tasks related to the selected topic of the diploma project in the team: student-project supervisor.

Preparation of the MSc thesis manuscript in accordance with suitable standards and general guidelines.

Prerequisites and co-requisites

Completed and passed all courses from semesters 1 and 2.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Preparation and presentation of the MSc thesis	50.0%	50.0%
Realization of tasks related to the diploma project	100.0%	50.0%

Recommended reading

Basic literature	[1] Nicholas Walliman, Research Methods, The Basics, Taylor & Francis Group, London and New York, 2011 [2] Hugh G. Gauch Jr., Scientific Methods in Brief, Cambridge University Press, 2012 [3] Scientific literature and specialist reports related to the diploma project.
Supplementary literature	[1] Guidelines for Authors of diploma thesis and diploma projects for higher education studies at Gdańsk University of Technology written in polish and english. [2] Scientific literature and specialist reports related to the diploma project.
eResources addresses	

Example issues/ example questions/ tasks being completed

The topics and detailed issues of diploma theses are developed annually and proposed by supervisors. All proposals are published through the MojaPG system.

Work placement

Not applicable

Document generated electronically. Does not require a seal or signature.