

Subject card

Subject name and code	, PG_00059150							
Field of study	Nanotechnology							
Date of commencement of studies	February 2023		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			Polish		
Semester of study	3		ECTS credits			24.0		
Learning profile	general academic profile		Assessme	ment 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 dr hab. inż. Agnieszka Witkowska							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Semi		Seminar	SUM
	Number of study hours	0.0	0.0	0.0	120.0	0.0		120
	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	120		30.0		450.0		600
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.							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	K7_U05	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.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment				
	K7_K04	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.	[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work				
	K7_U01	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_U10	The student has the ability to prepare in 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				
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	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Realization of tasks related to the diploma project	100.0%	50.0%				
	Preparation and presentation of the MSc thesis	50.0%	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 Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Example topics of diploma theses: - Performance characteristics of ground tire rubber composites with carbon nanofillers						
	- Tuning of in vitro dissolution of bioactive glasses by introducing magnesium and the nanocrystallization process						
Work placement	Not applicable						

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