



Subject card

Subject name and code	Master's thesis, PG_00063624						
Field of study	Materials Engineering						
Date of commencement of studies	October 2026	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	4	ECTS credits				12.0	
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						
Lesson types	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		15.0		285.0	300
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_U05] Can notice non-technical aspects when forming and solving design tasks, including environmental, economical and legal aspects. Applies the rules of occupational health and safety.	Student realizing a diploma project of an experimental, computational or experimental-computational nature in the field of material engineering has the necessary knowledge about the general safety rules and potential dangers and negative biological and ecological effects associated with the study and use of hazardous and toxic compounds and materials.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject
	[K7_K01] Understands the need for lifelong learning, can inspire and organize the learning process of others. Is aware of own limitations and knows when to turn to experts, can accurately determine priorities helping to achieve the tasks specified by themselves or others.	The student is able to analyze the state of knowledge and conduct a discussion with the teacher and colleagues.	[SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills
	[K7_W04] Has enhanced knowledge of materials sciences, within the scope required for describing and understanding the correlation between the chemical composition, structure and mechanical and physical properties.	Student develops the ability to analyze information and interpret measurement data, can use the knowledge of materials to describe the relationship between the chemical composition, structure, and mechanical and physical properties.	[SW3] Assessment of knowledge contained in written work and projects
[K7_U01] Can obtain information from literature, databases and other properly selected sources, also in English; can integrate the obtained information, interpret and draw conclusions, formulate and justify opinions	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	
Subject contents			
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 issues covered as part of the MSc diploma project in a given academic year are provided by the supervisors and are available in the moja.pg system.		
Practical activities within the subject	Not applicable		

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