GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00058745		
Field of study	Materials Engineering, Materials Engineering, Materials Engineering		
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
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	5.0
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	dr hab. inż. Ewa Wagner-Wysiecka dr inż. Ewa Głowińska dr hab. inż. Andrzej Miszczyk dr hab. inż. Justyna Kucińska-Lipka 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	75.0	0.0	0.0	75
	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	75	5.0	45.0	125

Subject objectives

The aim of the course is to acquire knowledge and practical skills necessary for the correct implementation of the tasks set in the master's thesis. Planning experiments, learning the principles of research methods and their practical carrying out, principles and methods of analysis of results and their presentation.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_U04	The student has the ability to prepare research results in writing, analyze them, discuss and conclude	[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
K7_K01	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_U03	The student has the ability to formulate research hypotheses on the design, synthesis and properties study of the materials. He can plan an experiment, describe and justify usage of physical, chemical and mechanical methods of material testing.	[SU4] Assessment of ability to use methods and tools
K7_W06	The student has knowledge of research techniques, construction and application of research equipment used in materials engineering.	[SW3] Assessment of knowledge contained in written work and projects
K7_W05	The student has the skills to use the methods of study structural, mechanical and physico-chemical properties.	[SW3] Assessment of knowledge contained in written work and projects

<table>
<tr><td>Subject contents</td><td colspan="3">The program includes elements of the student's individual work with the supervisor of the diploma project, as well as with a research team as part of the master's thesis subject.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3"></td></tr>
<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>Evaluation of the development of the research results</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Textbooks and publications agreed with the teacher taking care of the thesis.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Textbooks and publications agreed with the teacher taking care of the thesis.</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Issues consistent with the subjects of the Master's degree projects.</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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