GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Diploma seminar, PG_00063623		
Field of study	Materials Engineering		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
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	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Nanomaterials Physics -> 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. Barbara Kościelska	
	Teachers	prof. dr hab. inż. Barbara Kościelska	

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	2.0	8.0	25

Subject objectives

Preparation for the preparation and defense of the thesis.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language	Ability to use scientific English-language literature.	[SK4] Assessment of communication skills, including language correctness
[K7_U02] Can independently determine the directions of self-development and implement the self-education process it in order to raise professional competences.	The student is able to determine the direction of his or her development and educate himself or herself to improve his or her competences.	[SU5] Assessment of ability to present the results of task
[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 use literature databases, obtain information from them that is useful in his/her own research, draw conclusions from them and justify them.	[SU2] Assessment of ability to analyse information
[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.	The student has in-depth knowledge of materials engineering, allowing him to understand the physicochemical and mechanical properties of materials.	[SW2] Assessment of knowledge contained in presentation

Subject contents	Analysis of departmental rules of diploma . Elements of methodology for the preparation of the thesis : the choice of subject matter and the subject of the work , the schedule of the thesis , an analysis of the state of knowledge of the subject thesis , literature review , system operation , the main chapters , aim, conclusions , references, an estimate of experimental research , editorial work elements : text, results computing , graphs , measurement errors . Presentation of the overall theme of the work , a review of the literature. Discussion of results of research of its own. Presentation of the main results of the thesis . Critical analysis of the text of the thesis . Elements of the public / oral presentation of the results of work. Prepare a presentation on the thesis defense . Presentation of typical questions the thesis defense .
Prerequisites and co-requisites	Completed courses of semesters 1-2 .

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
participation in seminars	50.0%	30.0%
presentation of the thematic scope of work	100.0%	35.0%
presentation of their research results	100.0%	35.0%

Recommended reading

Basic literature	Scientific Method in Practice. Hugh G. Gauch Jr. Cambridge University Press (December 23, 2002). ISBN-13: 978-0521017084
Supplementary literature	The scientific literature thesis
eResources addresses	

Example issues/ example questions/ tasks being completed	What is the aim of the research? What is the level of research/knowledge worldwide related to the topic of the work? Do the results obtained in this work have application potential?
Work placement	Not applicable

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