GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Diploma seminar, PG_00062765		
Field of study	Technologies for Industry 5.0		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2028/2029
Education level	first-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	4	Language of instruction	Polish
Semester of study	7	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division Of Electrochemistry And Surface Physical Chemistry -> 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. Jacek Ryl	
	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	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	33.0	50

Subject objectives

Preparation for the realization and defense of the thesis. Acquainting with elements of scientific methodology.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K82] is equipped to participate in lectures, seminars and laboratory classes conducted in foreign language	The student is able to correctly use English-language sources and use technical vocabulary in the field of Industry Technology 5.0	[SK4] Assessment of communication skills, including language correctness
[K6_K02] makes decisions independently, carries out a critical assessment of own actions and actions of managed teams, is ready to make decisions and accept responsibility for the consequences of these actions	The student is able to synthetically present the basic assumptions regarding the implementation of the diploma thesis, describe the obtained results and the problems encountered	[SK2] Assessment of progress of work [SK4] Assessment of communication skills, including language correctness
[K6_U03] has the ability to plan, prepare and carry out engineering activities using practical knowledge and understanding of the specificity of materials, devices and tools, processes and technologies, and prepare a substantive report	The student is able to correctly identify the research problem, formulate a hypothesis, select tools that allow for its verification, confirmation and refutation. Is able to prepare a research report	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information

<table>
<tr><td>Subject contents</td><td>Analysis of the faculty diploma regulations.

Elements of the methodology of preparing the thesis: selection of the subject and topic of the thesis, work schedulethesis, analysis of the state of knowledge in the subject of the diploma, literature review, work layout, main chapters,purpose of the work, conclusions, references, cost estimate of experimental research, editorial elements of the work: text, results calculation, charts, measurement errors.

Presentation of the general subject of the work, literature review.

Discussion of the results of own research.Presentation of the main results of the thesis.

Critical analysis of the thesis text.

Elements of the public presentation of work results. Preparation of the presentation for the defense of the thesis.

Presentation of typical questions for the defense of a thesis</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Passed subjects from previous semesters</td></tr>
<tr><td>Assessment methods and criteria</td><td><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>presentation of own results</td><td>100.0%</td><td>50.0%</td></tr>
<tr><td>presentation of the scope of the work</td><td>100.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td><table>
<tr><td>Basic literature</td><td>Scientific Method in Practice. Hugh G. Gauch Jr. Cambridge University Press (December 23, 2002). ISBN-13: 978-0521017084</td></tr>
<tr><td>Supplementary literature</td><td>Scientific literature, articles in JCR journals on the subject of thesis</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
</table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>What is the purpose of the research being conducted?

What are the research hypotheses?</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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