GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Master Thesis II, PG_00067002		
Field of study	Smart Renewable Energy 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	16.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor		
	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	12.0	388.0	400

Subject objectives

Preparation by the student of the final version of the Master's thesis in the area of Smart Renewable Energy Engineering, including completion of the main part of the thesis, analysis and interpretation of results, formulation of conclusions, and preparation of the thesis for submission and defence under the supervision of the thesis supervisor, in accordance with the university regulations.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K04] understands the principles of sustainable development and can apply them to energy projects, taking into account environmental, economic, and social considerations	The student understands the importance of sustainable development principles and is ready to take environmental, economic and social aspects into account in the analysis, evaluation of results, and formulation of conclusions within the completed Master's thesis.	[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice
[K7_U01] is able to apply analytical thinking and solve technical problems related to renewable energy systems, including wind power, using engineering methodologies	The student is able to analyse and solve an engineering problem related to the thesis topic by using appropriately selected advanced analytical, computational, simulation, design or experimental methods in the area of renewable energy systems.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
[K7_K01] is prepared to evaluate projects and operations in wind energy systems, demonstrating competencies in designing and optimizing renewable energy systems, including wind power	he student is ready to critically assess the results of the completed Master's thesis and to formulate conclusions and recommendations concerning the design, evaluation and optimisation of renewable energy systems, including wind energy systems.	[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Prerequisites and co-requisites

Completion of Master Thesis I or achievement of equivalent learning outcomes. Progress in the thesis enabling completion of its main part, development of results, and preparation of the final version of the thesis in accordance with the university regulations.

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Assessment of the final version of the Master's thesis</td><td>56.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Literature consistent with the thesis topic, including scientific publications, monographs, standards, technical documentation and source materials related to the area of Smart Renewable Energy Engineering.</td></tr>
<tr><td>Supplementary literature</td><td>Supplementary literature consistent with the thesis topic, in particular recent review and research papers, industry reports, strategic and regulatory documents, and digital resources supporting the completion of the thesis.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Completion of the main part of the Master's thesis. Carrying out analyses, calculations, experiments, simulations or design work in accordance with the adopted methodology. Development and interpretation of results. Formulation of conclusions and recommendations. Preparation of the final version of the thesis in accordance with substantive, formal and editorial requirements. Preparation of materials for the thesis presentation and defence.</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="2">Not applicable</td></tr>
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