GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Master's thesis , PG_00064757		
Field of study	Power Engineering		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	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	20.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Sanitary Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Filip Gamoń	
	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

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/my/

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	30.0	470.0	500

Subject objectives

The course aims to prepare the student for the independent development of a masters thesis based on the analysis of theoretical and/or practical issues related to environmental engineering. During the course, the student develops analytical and research skills, expands specialized knowledge, and improves competencies in academic writing, presenting research results, and formulating and defending their own conclusions. The final outcome is the preparation and submission of a masters thesis, which demonstrates the acquired knowledge and the ability to apply it in practice when solving complex engineering and environmental problems.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U82] is able to proficiently obtain and process information related to field of study and academic environment in foreign language at B2+ level of the Common European Framework of Reference for Languages (CEFR)	The student is able to use English-language literature and interpret the information it contains.	[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
[K7_U14] integrates information obtained from literature and other properly selected sources, including those in a foreign language, creatively interpreting and critically evaluating them, and drawing conclusions	The student independently searches for and selects information from professional literature, databases, and online sources, critically analyzes and interprets it, and then formulates logical conclusions, providing justification within the context of the engineering issue being addressed.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information
[K7_K13] is ready for responsible performance of proffesional roles, considering ever-changing need of the society, including self developement and supporting and fullfiling work ethics	The student is prepared to responsibly perform professional roles, taking into account changing social needs as well as the principles of professional ethics.	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness
[K7_K81] is able to cooperate in international team at her/his own university, during work placement and during study abroad	The student is able to work effectively in an international team in both domestic and international academic and professional environments.	[SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills

<table>
<tr><td>Subject contents</td><td></td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Selection of the masters thesis topic:
The student should select a masters thesis topic in consultation with the supervisor that aligns with their research interests and skills.

Preliminary literature review:
The student should become familiar with the subject literature and selected scientific studies in the field of environmental engineering.

Knowledge of research methods and analytical tools:
The student should have basic knowledge of data analysis methods and tools used in environmental engineering (e.g., software for statistical analysis and environmental phenomenon modeling).</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>Master’s thesis</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>In accordance with the topic of the masters thesis.</td></tr>
<tr><td>Supplementary literature</td><td>In accordance with the topic of the masters thesis.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>What laboratory/computational techniques are required to conduct research as part of the masters thesis?

What statistical analyses are necessary for the proper analysis of the data?

What structural elements should a well-written masters thesis in the fields of environmental engineering and energy engineering contain?

What are the rules for citing sources in a masters thesis according to current academic standards?</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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