GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Master thesis, PG_00059965		
Field of study	Environmental 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	18.0
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 hab. inż. Ewa Zaborowska	
	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	30.0	420.0	450

Subject objectives

Based on the knowledge of studies and work during the diploma semester, the student solves the problem formulated in the subject of the master diploma thesis. The student presents the prepared diploma thesis.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U01] can obtain information from literature, databases and other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions	Student can find and properly use sources of information relating to the problem area of the diploma thesis	[SU1] Assessment of task fulfilment
[K7_W12] has knowledge of contemporary and useful principles on data acquisition, filtration, processing and analysis	Student is able to search for, analyze, and filter data and materials necessary for completing a scientific task.	[SW3] Assessment of knowledge contained in written work and projects
[K7_W10] has knowledge of the protection and management of intellectual, industrial and copyright resources	Student can find and properly use sources of information relating to the problem area of the diploma thesis	[SW3] Assessment of knowledge contained in written work and projects
K7_U09	The student demonstrates the ability to critically assess their own knowledge base, recognize areas requiring improvement, and develop effective strategies for ongoing autonomous learning.	[SU4] Assessment of ability to use methods and tools
[K7_U05] can rely on scientific sources for modern methods and technologies, and propose trends in the development of methods and rules for acquiring, filtering, processing and analyzing data	he student demonstrates the ability to retrieve knowledge from contemporary sources, including artificial intelligence tools. Furthermore, they possess competencies in analyzing, filtering, and processing information.	[SU2] Assessment of ability to analyse information

Subject contents

<table>
<tr><td>Prerequisites and co-requisites</td><td>The student should have in-depth knowledge of sanitary installations, including design principles, installation materials available on the market and legal regulations in the discussed scope, elements of energy and/or economic assessment, supporting software, basics of research work (respectively to the topic of the thesis).</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>Review of the thesis</td><td>60.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td>Recommended reading</td><td><table>
<tr><td>Basic literature</td><td>Sources of literature related to the topic of the master's thesis, to be identified by the student as part of preparing the literature review.</td></tr>
<tr><td>Supplementary literature</td><td>Sources of literature related to the topic of the master's thesis, to be identified by the student as part of preparing the literature review.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
</table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>- review of current legal acts, standards and literature in the field of work,
- critical evaluation of literature sources,
- preparation of technical documentation containing technical description, calculations and drawings,
- analysis of solutions based on calculations and comparisons,
- development and discussion of research results,</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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