GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Thesis Seminar , PG_00061775		
Field of study	Geodesy and Cartography		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2026/2027
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 The presentation may concern work in progress; a complete set of results is not required. The thesis workshop sheet is optional support material and is not a separate pass requirement. The seminar and feedback do not replace regular consultations with the supervisor or the formal assessment of the thesis by the supervisor and reviewer.
Semester of study	7	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Jakub Szulwic	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	40.0	40

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	40	5.0	30.0	75

Subject objectives

Preparation of students for the conscious planning, completion, presentation and defence of an engineering thesis. Development of the ability to define the problem, aim and scope of the thesis, justify the selection of data and methods, assess the reliability of results, identify limitations and use feedback. Preparation for the diploma examination through analysis of the published examination topics, construction of structured answers and problem-based discussion. Improvement of professional communication in Polish and English.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K01] can think and act in a creative and enterprising way; is ready to define priorities for the implementation of an individual or group task; understands the need for continuous education and professional responsibility for his own and his teamt activities, and being ready to assess their own limitations, knows when to ask experts	The student is able to plan and monitor the engineering thesis process, set priorities, assess the progress and quality of their own work, use feedback, and responsibly participate in individual or team work. The student recognises the limits of their own competence and knows when to consult the thesis supervisor or another expert.	[SK2] Assessment of progress of work [SK4] Assessment of communication skills, including language correctness
[K6_U81] is able to communicate appropriately in foreign language at B2 level of the Common European Framework of Reference for Languages (CEFR) in everyday life, in academic and professional environments	The student is able to prepare the thesis title, keywords and a short abstract in English and deliver a brief statement on the aim, method and main results using basic professional terminology.	[SU5] Assessment of ability to present the results of task

<table>
<tr><td>Subject contents</td><td>Course content – seminar
1.
Introduction to the seminar: roles of the supervisor, seminar, reviewer and diploma committee; stages of an engineering thesis; cooperation and responsibility.
2.
From problem to aim and scope: engineering question, success criteria, constraints and expected result.
3.
Thesis writing workshop: searching for and critically evaluating sources, documenting data, citation, academic integrity and responsible use of digital tools.
4.
From data to method: justification of data, tools and procedures; quality control, uncertainty, reproducibility and limitations.
5.
From results to conclusions: interpretation, visualisation and distinction between result, discussion and conclusion.
6.
Work planning: milestones, risk identification, progress monitoring and problem solving.
7.
From topic to presentation: content selection, five-slide structure, readable graphics and answering questions.
8.
Mini-conference sessions: topic and relevance; data or object; method; progress or result; question for discussion. Four-minute presentation followed by a two-minute discussion.
9.
Peer review: one strength, one substantive question and one suggestion for improvement.
10.
Diploma examination preparation: analysis of the published topics, structured answers, mock examination and defence of adopted solutions.
11.
Communication in English: title, keywords, short abstract and a concise statement about the thesis.
12.
Team theses: shared problem, method and result, with individual contributions identified and each member responsible for understanding the whole project.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>An engineering thesis carried out in consultation with the supervisor and a preliminarily agreed or approved thesis topic. Ability to search for and critically evaluate information, use knowledge and tools relevant to the field of study, and prepare a short presentation.</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>Participation in discussions, peer reviews, and the preparation of answers to examination questions</td><td>60.0%</td><td>30.0%</td></tr>
<tr><td>English-language title, keywords, abstract, and a brief statement about the work</td><td>60.0%</td><td>20.0%</td></tr>
<tr><td>Presentation of the engineering thesis and defense of the adopted solutions</td><td>60.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>Basic literature</td><td>• Materials for the "Diploma Seminar" course, available on the digital platform.
• The current Study Regulations of Gdańsk University of Technology and the applicable graduation policies of the Faculty of Civil and Environmental Engineering (WILiŚ).
• Booth W.C., Colomb G.G., Williams J.M., Bizup J., FitzGerald W.T., The Craft of Research, 5th ed., University of Chicago Press, Chicago 2024.</td></tr>
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	Supplementary literature	1. Gastel B., Day R.A., How to Write and Publish a Scientific Paper, 9th ed., Cambridge University Press, Cambridge 2024. 2. Specialized literature relevant to the research topic, as agreed upon with the supervisor. 3. Technical documentation, standards, legal acts, and reliable datasets appropriate for the task at hand.
	eResources addresses	Basic https://doi.org/10.5281/zenodo.23898978 - From Problem to Evidence: A Guide to Writing Degree Projects and Dissertations in Geodesy and Cartography – an open academic textbook covering the methodological, practical, and ethical aspects of preparing engineering and master's theses. Supplementary http://wilis.pg.edu.pl/kg/dydaktyka/egzamin-dyplomowy-zagadnienia - Faculty of Civil and Environmental Engineering (WILiŚ) at Gdańsk University of Technology (PG) – "Diploma examination / topics" (simple link wilis[.]pg[.]edu[.]pl/kg/dydaktyka/egzamin-dyplomowy-zagadnienia)
Example issues/ example questions/ tasks being completed	1. Formulation of the problem, aim, scope and success criteria of the engineering thesis. 2. Justification of data, method and tools; indication of quality-control procedures and main limitations. 3. Preparation of a schedule, milestones and project risks. 4. Search for and evaluation of scientific, technical and online sources; correct citation. 5. Five-slide presentation: topic and relevance; data or object; method; progress or result; question for discussion. 6. Four-minute thesis presentation followed by answers during a two-minute discussion. 7. Peer review: one strength, one substantive question and one suggestion for improvement. 8. Structured answer to a selected published diploma examination topic: definition or thesis, explanation, example of application and limitations. 9. Mock defence: justification of methodological decisions and response to a committee question. 10. English thesis title, keywords, short abstract and a concise statement about the thesis. 11. For team theses: identification of each person's contribution and demonstration of understanding of the complete solution.	
Practical activites within the subject	Not applicable	

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