



Subject card

Subject name and code	Thesis seminar II, PG_00065130						
Field of study	Geodesy and Cartography						
Date of commencement of studies	February 2025	Academic year of realisation of subject			2025/2026		
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	3	ECTS credits			1.0		
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	prof. dr hab. inż. Mariusz Figurski					
	Teachers	prof. dr hab. inż. Mariusz Figurski					
Lesson types	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	5.0	10.0	30		
Subject objectives	<p>The goal of the diploma seminar is for students to:</p> <ul style="list-style-type: none"> • Has technical and organizational information necessary for the implementation and timely completion of the process of preparing the diploma thesis, • was able to search for useful sources of information, • was able to work according to the agreed schedule, • he observed the principles of ethics in the implementation of the work. 						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_K02] recognizes the importance of knowledge in solving cognitive and practical problems	Understands the need to formulate and convey, in a universally understandable way, technical achievements and other aspects of engineering activities.			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice		
	[K7_K01] understands the need for continuous improvement of professional qualifications and respect for professional ethics	The student is able to obtain information from various sources without infringing copyright. Has the ability to communicate correctly in English in relation to the field of geodesy and cartography			[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work		

Subject contents	<p>Course content – seminar General characteristics of the purpose and subject of the seminar classes. Requirements for passing the seminar. Characteristics of formal and substantive requirements for master's thesis resulting from legal regulations in force at the faculty.</p> <p>Presentation of assigned Tasks for master's thesis. Discussion of topics of work, formulated goals and identification of problems that require consideration in the work.</p> <p>Discussion of the rules for creating the structure of a master's thesis, including the rules for separating chapters and their order. Discussion of the principles of building a complete work plan, including: introduction, chapters, completion and lists: tables, drawings, charts, bibliography and attachments. Rules for editing admission and termination.</p> <p>Discussion of the principles of obtaining source materials and their citation as well as the principles of generating footnotes and preparing a list of literature. Plagiarism and copyright protection.</p> <p>Discussion of the principles of presentation, description and inference of tabular and graphic pledges. Forms of graphic presentations (charts, diagrams, diagrams, drawings, photographs).</p> <p>Discussion of the requirements for the editorial and language side of the work, including: work layout and text, rules for using abbreviations and symbols, stylistic and linguistic correctness of the text - methods of checking it, editing the title page, creating a table of contents and the manner of binding the work.</p> <p>Presenting selected fragments of diploma theses by students. Discussion on problems arising during their development.</p> <p>Discussion of the principles of building a multimedia presentation. Preparing a presentation for your own work.</p> <p>Presentation of master's thesis by students using prepared multimedia presentations. Passing the seminar.</p>														
Prerequisites and co-requisites	Possession of knowledge, skills and competence to undertake the implementation of the diploma thesis.														
Assessment methods and criteria	<table border="1" data-bbox="448 981 1487 1149"> <thead> <tr> <th data-bbox="448 981 794 1014">Subject passing criteria</th> <th data-bbox="794 981 1141 1014">Passing threshold</th> <th data-bbox="1141 981 1487 1014">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1014 794 1048">Discussion at the seminar.</td> <td data-bbox="794 1014 1141 1048">25.0%</td> <td data-bbox="1141 1014 1487 1048">25.0%</td> </tr> <tr> <td data-bbox="448 1048 794 1081">Assessment of work presentation</td> <td data-bbox="794 1048 1141 1081">30.0%</td> <td data-bbox="1141 1048 1487 1081">45.0%</td> </tr> <tr> <td data-bbox="448 1081 794 1149">Observation of student's work preparation</td> <td data-bbox="794 1081 1141 1149">20.0%</td> <td data-bbox="1141 1081 1487 1149">30.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Discussion at the seminar.	25.0%	25.0%	Assessment of work presentation	30.0%	45.0%	Observation of student's work preparation	20.0%	30.0%
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<p>Example issues/ example questions/ tasks being completed</p>	<p>Sample Tasks Completed During the Seminar</p> <ul style="list-style-type: none"> • Developing the concept and structure of the diploma thesis • Conducting a literature review and preparing a research background • Processing measurement data (GNSS, total station, laser scanning, photogrammetry) • Building a simple computational algorithm or numerical model • Preparing maps, visualizations and figures for the thesis • Interpreting results and formulating conclusions • Presenting research outcomes and practicing oral defence • Simulating responses to diploma exam questions • Individual consultations on methods, tools and data correctness <p>Sample Questions for Diploma Exam Preparation</p> <ul style="list-style-type: none"> • What are the main sources of GNSS measurement errors and how can they be minimized • What is the difference between horizontal and vertical control networks • What are the key interpolation methods in spatial analysis and when should each be used • What is a geoid and how is its model determined • How does a laser scanner work and what are the stages of pointcloud processing • What are the principles of thematic map design and common cartographic mistakes • Why is electromagnetic wave propagation theory essential for satellite techniques • How are coordinate systems defined and why are transformations crucial in practice • What are the basic satellite orbit models and their applications • What are the main stages of a geodetic project from measurement to final map
<p>Practical activities within the subject</p>	<p>Not applicable</p>

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