



## Subject card

Subject name and code	Team research project I, PG_00067558						
Field of study	Photogrammetry and remote sensing						
Date of commencement of studies	February 2025		Academic year of realisation of subject				
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile			Assessment form		assessment		
Conducting unit	Department of History of Architecture and Conservation of Monuments -> Faculty of Architecture -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Anna Orchowska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	E-learning hours included: 0.0						
	Additional information: <b>Individual work of a (student) project team under the supervision of the project supervisor:</b> Students within the project team carry out tasks in accordance with a previously defined research or project plan, developed collaboratively with the project supervisor. Each team member has a clearly defined role and scope of responsibilities, allowing for the effective use of diverse skills and competencies. The teams work is organized and systematic, with regular consultations with the project supervisor providing substantive support, progress monitoring, and guidance for resolving encountered issues.  <b>Specialized seminars with experts:</b> During the implementation of the project, seminars led by experts in the relevant field are organized to expand students knowledge of key issues related to the projects subject matter. These seminars enable participants to familiarize themselves with current research, modern tools and methods, as well as practical aspects of project implementation. Experts, by sharing their experience and knowledge, inspire students to pursue innovative solutions and assist in developing critical thinking skills.						
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	30		1.0		19.0	50
Subject objectives	The objective of the course is to develop the ability to identify, analyze, and address complex problems related to key objects and phenomena characteristic of the studied field. Students deepen their theoretical and practical knowledge, learn to apply appropriate analytical and design methods, and enhance their teamwork skills in research settings. The course aims to prepare students for both independent and collaborative work in solving scientific and practical challenges while fostering the ability to present research findings effectively.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U101] is able to formulate complex research problems and adopts appropriate methods, obtaining innovative solutions, cooperating with other people, both as a leader and a team member	The student is able to identify and precisely formulate a complex research problem, plan activities leading to its solution, selecting appropriate research methods and tools. Demonstrates the ability to collaborate effectively in a team, acting as a leader or team member, and develops innovative solutions, presenting them in a form consistent with scientific and/or practical requirements.	[SU1] Assessment of task fulfilment
	[K7_W101] is able to make an in-depth identification of key objects and phenomena related to the field of study, as well as theories that describe them and applicable analytical and design methods	Students can identify key objects and phenomena related to the subject matter and analyze them in depth using appropriate theories and analytical or design methods. They demonstrate the ability to apply acquired knowledge in practice, proposing solutions tailored to the specific nature of the issue being studied.	[SW1] Assessment of factual knowledge
	[K7_K101] acknowledges the importance of knowledge related to the field of study in solving cognitive and practical problems, critically assessing the information obtained	Students can formulate a complex research problem and plan its solution, selecting appropriate research methods and tools. They actively collaborate within a research team, acting as a leader or team member, communicating effectively and completing tasks, leading to the development of innovative solutions and the presentation of results in a scientifically acceptable format.	[SK1] Assessment of group work skills
Subject contents	<p><b>According to the project requirements defined by the project supervisor.</b></p> <p>The course begins with an introduction to the research project, during which the objectives, assumptions, and structure of the project team are discussed, including the division of roles and responsibilities. Students are introduced to the principles of research methodology and the selection of appropriate research methods and tools tailored to the specifics of the project. Subsequently, the analysis of the research problem is conducted, which includes identifying and precisely formulating the issue, analyzing literature and secondary sources, and examining the theoretical and practical context.</p> <p>The next stage involves planning and organizing the teams work, including the development of an action schedule and task distribution using project management tools. As part of the research activities, field studies, laboratory experiments, or computer simulations are carried out, as well as data collection, processing, and analysis, with a focus on testing research hypotheses. During the projects implementation, students participate in specialized seminars and workshops with experts to expand their knowledge and refine the proposed solutions.</p> <p>A crucial element is the creation of innovative solutions, which includes generating concepts based on research results, prototyping, and developing strategies for implementing the outcomes. At the conclusion of the project, students prepare a final report and present their findings in multimedia formats, such as presentations, scientific posters, or 3D visualizations. An essential component also involves publishing the results in a scientific journal or presenting them at a conference.</p> <p>The project concludes with an evaluation (research report/scientific article), which includes assessing the achievement of objectives, reflecting on the effectiveness of the methods used and team organization, and drawing conclusions and recommendations for future projects.</p>		
Prerequisites and co-requisites	<p>Students are expected to have a basic knowledge of research and analytical methods relevant to their field of study, teamwork skills, and effective interpersonal communication. A fundamental understanding of tools and software supporting the research process, such as CAD software, statistical tools, or project management platforms, is essential. Critical analysis of literature and data, as well as familiarity with the principles of writing scientific reports and presenting results, are also required.</p> <p>Additionally, students should demonstrate openness to interdisciplinary collaboration and consultations with experts, a willingness to participate in specialized seminars and workshops, and initiative in independently addressing research problems. An interest in developing innovative solutions within the context of the project and proficiency in English at a level that allows for the use of scientific literature and presenting findings on an international platform will be considered additional advantages.</p>		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project schedule	70.0%	25.0%
	Written report	70.0%	25.0%
	Poster (PL + EN)	70.0%	25.0%
	Attendance at seminars	50.0%	25.0%
Recommended reading	Basic literature	According to the recommendations of the project supervisor.	
	Supplementary literature	According to the recommendations of the project supervisor.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	According to the recommendations of the project supervisor.		
Work placement	Not applicable		

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