GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Team research project I, PG_00067572		
Field of study	Team research project I		
Date of commencement of studies	October 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	1	Language of instruction	English
Semester of study	1	ECTS credits	2.0
Learning profile	general academic 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		
	Teachers		

Lesson types

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:

Praca indywidualna (studenckiego) zespołu projektowego pod kierunkiem opiekuna projektu: Studenci w ramach zespołu projektowego realizują zadania zgodnie z wcześniej określonym planem badawczym lub projektowym, opracowanym wspólnie z opiekunem projektu. Każdy członek zespołu ma jasno określoną rolę i zakres obowiązków, co pozwala na efektywne wykorzystanie różnorodnych kompetencji i umiejętności. Praca zespołu odbywa się w sposób zorganizowany i systematyczny, a regularne konsultacje z opiekunem projektu zapewniają wsparcie merytoryczne, kontrolę postępów oraz wskazówki dotyczące rozwiązania napotkanych problemów.

Seminaria specjalistyczne z ekspertami: W trakcie realizacji projektu organizowane są seminaria prowadzone przez ekspertów z danej dziedziny, mające na celu poszerzenie wiedzy studentów w zakresie kluczowych zagadnień związanych z tematyką projektu. Seminaria umożliwiają uczestnikom zapoznanie się z aktualnymi badaniami, nowoczesnymi narzędziami i metodami pracy, a także praktycznymi aspektami związanymi z realizacją projektu. Eksperci, poprzez dzielenie się swoim doświadczeniem i wiedzą, inspirują studentów do podejmowania innowacyjnych rozwiązań oraz pomagają w rozwijaniu krytycznego myślenia.

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_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] Ocena umiejętności pracy w grupie
[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] Ocena wiedzy faktograficznej
[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] Ocena realizacji zadania

Subject contents

According to the project requirements defined by the project supervisor.

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.

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.

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.

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.

Prerequisites and co-requisites

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.

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.

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Attendance at seminars	50.0%	25.0%
	Poster (PL + EN)	70.0%	25.0%
	Written report	70.0%	25.0%
	Project schedule	70.0%	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.		
Practical activites within the subject	Not applicable		

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