GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00065391		
Field of study	Architecture		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
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	1	Language of instruction	English Polish and English
Semester of study	1	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of History of Architecture and Conservation of Monuments -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Anna Orchowska	
	Teachers	dr inż. arch. Jan Cudzik dr inż. arch. Anna Orchowska dr inż. arch. Joanna Badach dr inż. arch. Karolina Życzkowska dr inż. arch. Justyna Borucka prof. dr hab. inż. arch. Lucyna Nyka dr hab. inż. arch. Agnieszka Gębczyńska-Janowicz dr hab. inż. arch. Rafał Janowicz dr hab. inż. arch. Robert Idem dr hab. inż. arch. Katarzyna Zielonko-Jung mgr inż. arch. Kacper Radziszewski dr inż. arch. Agnieszka Kurkowska dr inż. Natalia Sokół dr inż. arch. Mateusz Gerigk dr hab. inż. arch. Dorota Kamrowska-Załuska dr inż. arch. Izabela Burda	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	40.0	0.0	40
	E-learning hours included: 0.0						

Additional information:
Individual work of a (student) project team under the supervision of the project supervisor: 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.

Specialized seminars with experts: 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	40	0.0	0.0	40

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 actions leading to its resolution, and select appropriate research methods and tools. They demonstrate the ability to effectively collaborate within a team, assuming the role of leader or team member, and develop innovative solutions, presenting them in a form consistent with scientific and/or practical requirements.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [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	The student is able to identify key objects and phenomena related to the subject matter of the course 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 specifics of the studied issue.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [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	The student is able to formulate a complex research problem and plan its resolution by selecting appropriate research methods and tools. They actively collaborate within a research team, assuming the roles of leader or team member, effectively communicating and completing tasks, leading to the development of innovative solutions and the presentation of results in a scientifically acceptable form.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills

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	
Recommended reading	
Example issues/ example questions/ tasks being completed	According to the recommendations of the project supervisor.
Work placement	Not applicable

Subject passing criteria	Passing threshold	Percentage of the final grade
Written report	70.0%	25.0%
Project schedule	70.0%	25.0%
Attendance at seminars	50.0%	25.0%
Poster (PL + EN)	70.0%	25.0%

Basic literature	According to the recommendations of the project supervisor.
Supplementary literature	According to the recommendations of the project supervisor.
eResources addresses	Adresy na platformie eNauczanie:

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