



## Subject card

Subject name and code	, PG_00066691						
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					
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			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. Natalia Sokół dr hab. inż. arch. Robert Idem dr hab. inż. arch. Katarzyna Zielonko-Jung dr inż. arch. Anna Orchowska dr inż. arch. Izabela Burda dr inż. arch. Jan Cudzik dr hab. inż. arch. Dorota Kamrowska-Załuska dr hab. inż. arch. Rafał Janowicz mgr inż. arch. Kacper Radziszewski dr inż. arch. Agnieszka Kurkowska dr inż. arch. Mateusz Gerigk dr inż. arch. Justyna Borucka prof. dr hab. inż. arch. Lucyna Nyka dr inż. arch. Karolina Życzkowska dr hab. inż. arch. Agnieszka Gębczyńska-Janowicz					
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						
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 aim of the course is to develop students skills in identifying, analyzing, and solving complex problems related to key objects and phenomena characteristic of their field of study. Students deepen their theoretical and practical knowledge, learn to apply appropriate analytical and design methods, and enhance their ability to collaborate within a research team. The course is designed to prepare students for both independent and team-based work in addressing scientific and practical challenges while simultaneously improving their ability to present research findings.						

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 by selecting appropriate research methods and tools. They demonstrate effective teamwork skills, taking on the role of either a leader or a team member, and develop innovative solutions, presenting them in a format that meets 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_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, taking on the role of either a leader or a team member, effectively communicating and carrying out tasks. This results in the development of innovative solutions and the presentation of findings in a scientifically acceptable format.	[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
	[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 and conduct an in-depth analysis using appropriate theories and analytical or design methods. They demonstrate the ability to apply acquired knowledge in practice by 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
Subject contents	<p><b>According to the project requirements defined by the project supervisor.</b></p> <p>The course begins with an <b>introduction to the research project</b>, during which the objectives, assumptions, and structure of the research team are discussed, including the division of roles and responsibilities. Students become familiar with <b>research methodology principles</b> and the selection of appropriate research methods and tools tailored to the specifics of the project.</p> <p>The next stage involves the <b>analysis of the research problem</b>, which includes identifying and precisely formulating the research question, reviewing relevant literature and secondary sources, and examining both theoretical and practical contexts.</p> <p>Following this, students engage in <b>planning and organizing the teams work</b>, developing an action schedule, and distributing tasks using <b>project management tools</b>. The research activities include <b>field studies, laboratory experiments, or computer simulations</b>, as well as <b>data collection, processing, and analysis</b>, incorporating hypothesis testing.</p> <p>Throughout the project, students participate in <b>specialized seminars and expert workshops</b> aimed at expanding knowledge and refining the proposed solutions.</p> <p>A key element is the <b>creation of innovative solutions</b>, including concept generation based on research findings, prototyping, and <b>developing strategies for implementation</b>. At the end of the project, students prepare a <b>final report and a multimedia presentation</b> of their results, such as a <b>presentation, scientific poster, or 3D visualization</b>. Additionally, an important aspect is the <b>publication of research results in a scientific journal or their presentation at a conference</b>.</p> <p>The project concludes with an <b>evaluation phase</b> (research report/scientific article), which includes <b>assessing goal achievement, reflecting on the effectiveness of the methods used, analyzing team organization, and drawing conclusions and recommendations for the future</b>.</p>		

Prerequisites and co-requisites	<p>Students are expected to have a fundamental understanding of <b>research and analytical methods</b> relevant to their field of study, as well as <b>teamwork and effective interpersonal communication skills</b>. A basic knowledge of <b>tools and software supporting the research process</b> is also essential, including <b>CAD software, statistical tools, and project management platforms</b>.</p> <p>An important aspect is the <b>ability to critically analyze literature and data</b>, as well as familiarity with <b>scientific report writing and result presentation principles</b>.</p> <p>Additionally, students are encouraged to demonstrate <b>openness to interdisciplinary collaboration and expert consultations</b>, actively participate in <b>specialized seminars and workshops</b>, and take the initiative in <b>independently solving research problems</b>. Interest in <b>developing innovative solutions</b> within the project and <b>proficiency in English</b> at a level that enables the use of scientific literature and the presentation of research findings in an international forum will be considered additional advantages.</p>		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		70.0%	25.0%
		50.0%	25.0%
		70.0%	25.0%
		70.0%	25.0%
Recommended reading	Basic literature	According to the project supervisors recommendations.	
	Supplementary literature	According to the project supervisors recommendations.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Według wymagan i założeń projektowych.		
Work placement	Not applicable		

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