



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Research and Project Design Studio

Course

Field of study

Architecture

Area of study (specialization)

-

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

II/3

Profile of study

general academic

Course offered in

polish/english

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

60

Other (e.g. online)

Tutorials

0

Projects/seminars

0

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

prof. dr hab. inż. arch. Wojciech Bonenberg

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Wydział Architektury Politechniki Poznańskiej

ul. Jacka Rychlewskiego 2, 61-131 Poznań

Responsible for the course/lecturer:

prof. dr hab. inż. arch. Wojciech Bonenberg

dr hab. inż. arch. Anna Januchta-Szostak, prof. PP

dr hab. inż. arch. Hanna Michalak, prof. PP

dr hab. inż. arch. Dominika Pazder,

dr inż. arch. Piotr Zierke,

Prerequisites

- the student has an orderly, theoretically founded general knowledge covering key issues of the history of general and Polish architecture, the history of urban planning and the history of contemporary architecture

- the student has a basic knowledge of contemporary development trends in the field of the history of architecture and urban planning

- the student knows the basic methods, techniques, tools and materials used by the architect at work



- the student knows and understands the basic concepts and principles of copyright and the need to manage intellectual property resources
- the student has the knowledge necessary to understand the social, economic, legal and other non-technical conditions of an architect's activity, and to take them into account in the architect's practice
- the student knows and understands the basic concepts and principles of copyright and the need to manage intellectual property resources
- the student is able to obtain information from literature, databases and other, properly selected sources, also in English, is able to integrate information, interpret it, as well as draw conclusions and formulate and justify opinions
- the student is able to communicate using various techniques, including handwritten architectural drawing, in a professional environment and in other environments, also in English
- the student is able to prepare and present an oral presentation on specific issues with the use of professional vocabulary in the field of architecture and town planning, construction, functional conditions and forms
- the student is able to determine the directions of further learning and implement the self-education process,
- the student is able to use information and communication techniques appropriate to the implementation of tasks typical for an architect, including architectural drawing
- the student understands the need for lifelong learning, can inspire and organize the learning process of other people
- the student is able to interact and work in a group taking various roles in it
- the student is able to think and act in a creative and entrepreneurial manner

Course objective

1. The aim is to get to know the methodology of scientific research and various research methods by the students of the last semester of the second degree, as well as to conduct independent research, expanding their knowledge on topics related to the topic of their diploma dissertation already known to them.
2. The topics of the studies may be broadening or detailed, allowing for an individual, broader than in the framework of the diploma dissertation, a research topic.
3. The final study is formatted in the manner imposed in advance by the teacher.
4. The developed research material is presented to the group as a multimedia presentation, which requires the ability to select and select material. Time-limited statements from students enforce self-discipline. It is a preparation for the diploma presentation and subsequent professional presentations.



5. The discussion after the presentation is aimed at highlighting the shortcomings and advantages of the work.

6. During the classes there is cooperation within the group and the exchange of collected materials and experiences.

Course-related learning outcomes

Knowledge

B.W1. advanced theory of architecture and town planning useful for formulating and solving complex tasks in the field of architectural and urban design and spatial planning, as well as development trends and current trends in architectural and urban design;

B.W2. history of architecture and urban planning, contemporary architecture, heritage protection to the extent necessary for architectural, urban and planning creativity;

B.W3. the role and importance of the natural environment in architectural and urban design and spatial planning, as well as the need to shape spatial order, sustainable development, and the subject of environmental and cultural landscape threats;

B.W4. issues related to architectural, urban and spatial planning, such as technical infrastructure, communication, natural environment, landscape architecture, economic, legal and social conditions - necessary for understanding social, economic, ecological, natural, historical, cultural, legal and other non-technical determinants of engineering activities and sees the need to take them into account in architectural, urban and rural design and spatial planning;

B.W7. theoretical basis of scientific reasoning and conducting research in the field useful for the implementation of complex design tasks, as well as the interpretation of scientific studies in the scientific discipline - architecture and town planning;

B.W8. ways of communicating the idea of architectural, urban and planning projects and their development;

B.W9. basic principles of the ethics of the profession of architect and concepts in the field of intellectual property protection.

Skills

B.U1. integrate advanced knowledge from various areas of science, including history, history of architecture, history of art and protection of cultural goods, spatial management while solving complex engineering tasks;

B.U2. recognize the importance of non-technical aspects and effects of an architect's design activity, including its impact on the cultural and natural environment, and take responsibility for technical decisions made in the environment and for the transfer of cultural and natural heritage to future generations



B.U3. recognize systemic and non-technical aspects, including environmental, cultural, artistic, economic and legal aspects in the process of architectural, urban and planning design with a high degree of complexity;

B.U4. formulate statements of a critical analysis nature in the field of architecture, as well as present and synthetically describe the ideological basis of the project based on the assumptions made;

B.U5. use properly selected advanced computer simulations, analyzes and information technologies, supporting architectural and urban design, as well as evaluate the obtained results and their usefulness in design, and draw constructive conclusions;

B.U6. prepare and present a presentation on the detailed results of the design engineering task using various communication techniques, including one formulated in a commonly understandable manner;

B.U7. prepare and present a presentation on the detailed results of the design engineering task using various communication techniques, including one formulated in a commonly understandable manner;

B.U8. properly apply professional and ethical standards and rules as well as legal provisions in the field of architectural and urban design and spatial planning.

Social competences

B.S1. formulate and transfer information and opinions to the society on the achievements of architecture and town planning, their complex conditions and other aspects of the architect's activity;

B.S2. formulate reliable self-assessment, formulate constructive criticism regarding architectural and urban planning activities, as well as accept criticism of the solutions presented by them, responding to criticism in a clear and factual manner, also using arguments referring to the available achievements in the scientific discipline, and creative and constructive use of criticism .

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

1. Active participation confirmed by the presence of at least 2/3 classes.
2. Assessment of term work.

Formative assessment

- The substantive contribution of each student to the group's research is assessed
- The quality of the final study is assessed
- The quality of the presentation of research results in the group forum is assessed
- Lack of attendance (unexcused) in more than three classes will lower the final grade

Assessment scale: 2.0; 3.0; 3.5; 4.0; 4.5; 5.0

Summative assessment:



- The final grade is the average of the above notes.

Assessment scale: 2.0; 3.0; 3.5; 4.0; 4.5; 5.0

Programme content

1. Overview of the main topic and division into sub-topics. Providing basic literature, providing a bibliography, publishing maps and plans.
2. Consultations, discussions, solving individual problems, establishing a catalog of basic features. Variants for specific topics. The order of work for individual groups.
3. Consultations, discussions, solving individual problems, defining the form of putting work, presentation. The order of work for individual groups.
4. Consultations, discussions, solving individual problems.
5. Consultations, discussions, solving individual problems.
6. Consultations, discussions, solving individual problems.
7. Consultation, development of "points of contact" of topics developed by research groups.
8. Consultation, development of "points of contact" of topics developed by research groups.
9. Development of a common written / drawing form of the research results.
10. Development of a common written / drawing form of the research results.
11. Presentation of research results.
12. Presentation of research results.
13. Presentation of research results.
14. Presentation of research results.
15. Summary of exercises. Providing written reports on the conducted research.

Teaching methods

1. Laboratory
2. eLearning Moodle (a system supporting the teaching process and distance learning)

Bibliography

Basic

Due to the different nature and subject of research and design work carried out in individual groups, the literature for the subject is determined on an ongoing basis by the tutor.



Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	60	2,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	40	1,5

¹ delete or add other activities as appropriate