



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of the Master Thesis and Preparation for the Diploma Examination [S2Arch2E>PPMiPdED]

Course

Field of study
Architecture

Year/Semester
2/3

Area of study (specialization)
–

Profile of study
general academic

Level of study
second-cycle

Course offered in
English

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
0

Number of credit points

15,00

Coordinators

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Lecturers

Prerequisites

- student has explicit, theoretically based knowledge including the key issues of designing architectural and urban planning composition, - student has knowledge of development trends in designing architectural and urban planning form, - student knows the basic methods used at solving design tasks in the scope of designing architectural and urban form, - student has knowledge required for the understanding of social determinants of activity related to correct formation of space, - student can acquire information from publications, data bases and other sources in Polish and other foreign language considered as a language of international communication in his/her field of study, can interpret and integrate the said information and draw conclusions as well as voice and justify opinions, - student can prepare in Polish (and foreign language), which is considered as a basic for the field of science and scientific disciplines relevant to his/her field of study, well-documented elaboration concern issues related to main trends and directions of architecture and urban planning, - student has self-education skills, - student can carry out critical analysis and assess the importance of design solutions in the scope of architectural and urban planning composition, - student can use IT techniques, including artistic means, respectively to the performance of tasks typical for designing the architectural composition, - student is aware of the importance of nontechnical aspects and effects of architectural activities, in this impact upon the environment and spatial context and liability for environment affecting decisions related to correct formation of space, - student correctly identifies dilemmas related to profession of architect and town planner, - student is aware of social

2 role of technical studies graduate, especially understands the needs of formulation and communication to the public, especially by mass media, information and opinions related to the achievements of technique and other aspects of engineering activity; makes efforts to provide such information and opinion in commonly understood manner, - student can work and cooperate in a team, assuming a number of different roles therein

Course objective

- To provide theoretical preparation for the student to develop a master's thesis project by expanding on the individual topics addressed in the thesis project.
- To familiarize the student with the methodology for developing an engineering thesis project, including the descriptive component and establishing a work plan.
- To discuss issues related to the originality of the work and the consequences arising from proven plagiarism.
- To discuss the importance of and prepare necessary analyses.
- To review conclusions from the conducted analyses and determine their impact on the selection of design solutions.
- To present the assumptions and results of the master's thesis; preparation, delivery, and preliminary evaluation of the final thesis presentation.

Course-related learning outcomes

Knowledge:

Knows and understands detailed issues related to architecture and urban planning in the field of solving complex design problems;

Knows and understands advanced issues related to architecture and urban planning useful for designing architectural objects and urban complexes in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activity, integrating the knowledge acquired during studies;

Knows and understands principles, solutions, structures, building materials used in the performance of engineering tasks in the field of architectural and urban design;

Knows and understands issues related to architecture and urban planning in the context of the multi-sector nature of architectural and urban design and the need to cooperate with other specialists;

Knows and understands principles of professional presentation of architectural and urban concepts.

Skills:

Can formulate a critical analysis of the existing conditions, valorize the state of land development and buildings and formulate conclusions for design in a complex, interdisciplinary context;

Can design a complex architectural object or urban complex by creating and transforming the space so as to give it new values - in accordance with the adopted program, taking into account non-technical aspects and integrating interdisciplinary knowledge and skills acquired during studies;

Can prepare an advanced graphic, written and oral presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for architectural and urban design;

Can use analytical methods to formulate and solve design tasks;

Can present the theoretical background and justification of the presented solutions in the form of a scientific study;

Can organize work taking into account all phases of work on the design concept.

Social competences:

Is capable of effectively use imagination, intuition, creative attitude and independent thinking in order to solve complex design problems;

Is capable of speak and present publicly;

Is capable of accept criticism of the solutions presented by them and respond to it in a clear and matter-of-fact manner, also using arguments referring to the achievements of the scientific discipline, as well as to use this criticism in a creative and constructive manner;

Is capable of formulate and transfer information and opinions to society on the achievements of architecture and town planning, their complex conditions, and other aspects of the architect's activity; provide an opinion in a commonly understandable manner;

Is capable of properly prioritize activities serving task implementation.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative Assessment: Evaluation of individual stages of work in a group setting, with collective analysis and discussion.

Grading Scale: 2.0; 3.0; 3.5; 4.0; 4.5; 5.0

Summative Assessment: Final grade given by the supervisor for the preparation of the thesis project. o

Grading Scale: 2.0; 3.0; 3.5; 4.0; 4.5; 5.0

Percentage thresholds:

Rating 2.0 (insufficient) - 0-50%

Rating 3.0 (sufficient) - 50-60%

Rating 3.5 (sufficient plus) - 60-70%

Rating 4.0 (good) - 70-80%

Rating 4.5 (good plus) - 80-90%

Rating 5.0 (very good) - 90-100%

Programme content

Electiveness - Before the beginning of the diploma semester, the student selects a thesis supervisor (according to his/her research interests) and a topic for the master's diploma. The topic of the master's diploma thesis is agreed with the thesis supervisor and approved by the appropriate faculty committee. The topic should address important and current issues related to architectural and urban design and allow for the presentation of skills acquired during studies.

Course topics

Classes are held in the form of consultations with the thesis supervisor and lectures devoted to individual problems occurring in the diploma projects in the field of construction, water and sewage installations, ventilation, air conditioning, lighting, etc.

The supervisor is the main supervisor of the thesis. With the support of the supervisor, Student develops:

a theoretical part of the thesis, approx. 80 - 100 pages of A4 text, containing:

- introduction (with an introduction and justification for the choice of topic)
- the main descriptive part of the thesis consisting of subsequent (3-5) chapters (with subchapters) containing, among others: presentation of the most important architectural and urban issues, review of current knowledge and existing solutions, presentation of ways and methods of solving the problem addressed in the thesis, discussion of the results of the conducted research.
- description of the adopted design concept with a technical description
- conclusion with a summary of the entire work and conclusions resulting from it
- literature, list of written sources used
- list of illustrations with their sources
- boards, which are a reduction of the graphic part to A4 format
- photos of the model, at least 2 pieces (maximum 4 pieces), in A4 format
- annexes

Additionally, the student prepares the design part (in the form of a graphic study - 8 boards in 100x70 format), containing:

- analyses, sketches, topic studies
- land development project with a description and surface balance
- views of the above-ground and underground floors with a list of rooms
- at least two cross-sections
- elevations
- two perspectives showing spatially the buildings or a complex of buildings with the existing context
- architectural and urban detail (in a scale of 1:20, 1:10, 1:5)

The student must prepare a physical model of the building in a scale agreed with the instructor.

Teaching methods

1. Discussion on methods for presenting work during the defense.
2. Problem-based method utilizing various sources of knowledge, along with text and graphic interpretation.
3. eLearning through Moodle (system supporting the teaching and distance learning process).

Bibliography

Basic:

1. Creswell J. W., Projektowanie badań naukowych. Metody Jakościowe, ilościowe i mieszane, Wydawnictwo Uniwersytetu Jagiellońskiego, Kraków 2013
2. Niezabitowska E.D. Metody i techniki badawcze w architekturze, Wydawnictwo Politechniki Śląskiej, Gliwice 2014
3. Marciniak P., Gawlak P., Świt-Jankowska B., Master's thesis field of study: Architecture Methodological guide for diploma students, Poznan 2023, <https://architektura.put.poznan.pl/sites/default/files/2023-06/przewodnik%20metodyczny%C2%A0dla%20student%C3%B3w%20dyplomowych%20-%20magister%20kierunek%20Architecture%20EN.pdf>

Additional:

Supplementary literature adapted to the topic of the diploma thesis, each time agreed with the thesis supervisor.

Breakdown of average student's workload

	Hours	ECTS
Total workload	375	15,00
Classes requiring direct contact with the teacher	135	6,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	240	9,00