



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of the diploma thesis and preparation for the diploma exam [S1Arch1E>PPDiPED]

Course

Field of study
Architecture

Year/Semester
4/8

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
English

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
40

Projects/seminars
0

Number of credit points

15,00

Coordinators

Lecturers

Prerequisites

• The student possesses structured, theoretically grounded general knowledge encompassing key issues related to shaping architectural and urban composition. • The student has basic knowledge of developmental trends in architectural and urban form shaping. • The student knows basic methods used in solving design tasks related to architectural and urban composition. • The student has foundational knowledge necessary for understanding the social conditions of activities related to the proper shaping of spaces. • The student is capable of obtaining information from literature, databases, and other appropriately selected sources, including sources in Polish or another foreign language recognized as an international communication language in the field of study; they can integrate the obtained information, interpret it, and also draw conclusions, as well as formulate and justify opinions. • The student can prepare well-documented reports in Polish (and a foreign language recognized as primary for the relevant fields of science and academic disciplines) on issues related to the main trends and directions in architecture and urban planning. • The student has the ability for self-directed learning. • The student is capable of conducting a critical general analysis and evaluating the significance of design solutions in architectural and urban composition. • The student can use information and communication techniques, including artistic media, appropriate for carrying out typical tasks in shaping architectural composition. • The student understands the need for lifelong learning and is able to inspire and organize the learning process for others. • The student is aware of the importance of and understands the non-technical aspects and effects of architectural activities, including their impact on the environment and spatial context, as well as the related responsibility for making decisions on the proper shaping of spaces. • The student correctly

identifies dilemmas related to the profession of architect and urban planner. • The student is aware of the social role of a graduate of a technical university, especially understanding the need to formulate and convey to the public—particularly through mass media—information and opinions on technological achievements and other aspects of engineering activities; they strive to communicate such information and opinions in a universally understandable way. • The student can collaborate and work in a group, assuming various roles within it.

Course objective

- theoretical preparation of student to development of engineering diploma project, consisting in development of individual topics, discussing in diploma project - presentation of development methodology of engineering diploma project with descriptive part, determination of work plan - discussion of issues of work originality and consequences of proving plagiarism - searching the source materials - implementation of theoretical chapters of work: support and development of the analytic part of engineering diploma thesis. Discussion of importance and preparation of analyses - discussion of conclusions from carried out analysis and determine their impact on selection of design solutions - determine the complementary literature related to design issues - implementation of design part according to guidelines (“Diploma thesis. Methodological guide for students preparing engineering or master diploma thesis”) - presentation of assumptions and results of engineering diploma thesis; preparation, uttering and preliminary assessment of final presentation of diploma thesis

Course-related learning outcomes

- C.W3. Basic principles of research methodology, including the preparation of scientific papers.
- D.W1. Detailed issues related to architecture and urban planning in the context of solving complex design problems.
- D.W2. Advanced issues in architecture and urban planning relevant to designing architectural objects and urban complexes, taking into account social, cultural, environmental, historical, economic, legal, and other non-technical conditions of engineering practice, integrating knowledge acquired during studies.
- D.W3. Principles, solutions, structures, and building materials used in performing engineering tasks in architectural and urban design.
- D.W4. Issues in architecture and urban planning related to the multidisciplinary nature of architectural and urban design and the need for collaboration with other specialists.
- D.W5. Principles of professional presentation of architectural and urban planning concepts.

Skills:

- C.U3. Acquire information from literature, databases, and other sources, including in a foreign language that is an international communication language, to use it in the design process or, to a basic extent, in scientific activities.
- C.U4. Prepare a scientific paper, define the subject, scope, and purpose of the conducted research.
- D.U1. Perform critical analysis of existing conditions, evaluate land use and development, and formulate design conclusions within a complex, interdisciplinary context.
- D.U2. Design a complex architectural object or urban complex, creating and transforming space to imbue it with new values according to the adopted program, considering non-technical aspects and integrating interdisciplinary knowledge and skills acquired during studies.
- D.U3. Prepare an advanced graphic, written, and oral presentation of personal design concepts in architecture and urban planning, meeting the requirements of professional documentation appropriate for architectural and urban design.
- D.U4. Use analytical methods to formulate and solve design tasks.
- D.U5. Present the theoretical background and justification of proposed solutions in the form of a scientific paper.
- D.U6. Organize work by considering all phases of work on a design concept.

Social Competencies:

- D.S1. Effectively use imagination, intuition, a creative attitude, and independent thinking to solve complex design problems.
- D.S2. Deliver public speeches and presentations.
- D.S3. Accept criticism of their proposed solutions and respond to it clearly and factually, using arguments that refer to the discipline's body of knowledge and creatively and constructively use this criticism.
- D.S4. Formulate and communicate to the public information and opinions on architectural and urban

achievements, their complex conditions, and other aspects of an architect's work, presenting opinions in an accessible manner.

- D.S5. Properly set priorities for actions aimed at task completion.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The 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.
 - o 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

Programme content

Proposed master's thesis topics for the academic year 2017/2018:

1. Scientific Base and Nature Education Center in the Botanical Garden of Adam Mickiewicz University in Poznań
2. University Earth History Park Center
3. Service Building Complex - Areas A, B, C, D, Łacina Street - Pleszewska Street
4. Senior Home on G. Berger Street in Poznań
5. Residential and Service Block in Konin – Multi-family Urban Development

Course topics

theoretical preparation of student to development of engineering diploma project, consisting in development of individual topics, discussing in diploma project

- presentation of development methodology of engineering diploma project with descriptive part, determination of work plan
 - discussion of issues of work originality and consequences of proving plagiarism - searching the source materials
 - implementation of theoretical chapters of work: support and development of the analytic part of engineering diploma thesis. Discussion of importance and preparation of analyses
- 3
- discussion of conclusions from carried out analysis and determine their impact on selection of design solutions - determine the complementary literature related to design issues
 - implementation of design part according to guidelines ("Diploma thesis. Methodological guide for students preparing engineering or master diploma thesis")
 - presentation of assumptions and results of engineering diploma thesis; preparation, uttering and preliminary assessment of final presentation of diploma thesis

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

- Primary Literature
 1. Marciniak P., Methodological Guide for Preparing Engineering or Master's Thesis, Poznań 2016, http://architektura.put.poznan.pl/n/wpcontent/uploads/2016/05/PRZEWODNIK_WAPP_PRACE-DYPLOMOWE_v8_30112016.pdf.
 2. E-textbook for the subject Preparation of Master's Thesis and Preparation for Diploma Examination (in development).
- Supplementary Literature

Breakdown of average student's workload

| | Hours | ECTS |
|--|-------|-------|
| Total workload | 375 | 15,00 |
| Classes requiring direct contact with the teacher | 70 | 6,00 |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 305 | 9,00 |