**Course name:** BSC Thesis

**Curriculum:** Architecture BSc

**Course code:** EPB497ANEM

**Semester:** 7

**Credits (ECTS):** 5

**Class hours/week:** 3/0/3

**Form of assessment:** signature

**Prerequisites:** EPE316ANEM, Design Studio 6

 EPE105ANEM, Building Constuctions 5

Subject responsible lecturer: Dr. Péter ZILAHI, associate professor

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## General Course Description

The course provides the bachelor's degree students who are attending the Architectural Engineer BSc of PTE with the knowledge needed to complete their studies with a thesis as a written and scientific work.

The thesis reflects on the topic of the thesis, provides accurate answers to the questions of non-conventional architectural situations, design-aesthetics and social problems from urban issues to structural solutions, especially in the fields of innovation, sustainability, economy, solidarity and ecological thinking. The thesis is a written theoretical work that proves that the student is theoretically prepared for master studies. The aim of the subject is to prepare the written documentation and scientific discussion of the diploma, namely the final form of the thesis and fill it with professional content, under the guidance of teachers, in the framework of individual professional work. The instructor of the subject and the students are going to consider the researchable directions of the major areas regarding the chosen broader topic, as a result of which the student narrows down the field of research and prepares the chapters of the thesis.

The knowledge needed for writing the thesis is discussed in steps, besides the written tasks the students practice the methods of oral communication (lecture, oral presentation, thesis defense), use the necessary techniques (sketch, projector) and prepare for similar tasks waiting for them in the world of work. The aim for the students is to demonstrate, through their knowledge of natural sciences, engineering and art, as well as economic and human knowledge, and related skills throughout the entire area of interior design activities, to be able to solve independent interior design tasks with being aware of the social and environmental impact of architecture, with responsibility and commitment. The main focus of the course is that the student can apply the knowledge acquired during the training in a complex way, with special regard to the conceptual design approach, the integration into the built environment, the logical clean connection of functions, finding aesthetic structure and forming interior representative spaces in a sophisticated way.

Learning Outcomes

During the course, students are required to keep records of the design project in writing. In doing so, they will acquire professional drafting skills.

In addition to describing the process, they should be able to reflect on the research work. They should be able to describe the new technologies they have learned about and their economic and social usefulness, and thus the justification for their selection.

By the end of the course, participants will have acquired the following professional competences:

Knowledge:

* Know the steps of scientific writing, can build up the structure of scientific essays

Capability:

* Ability to justify scientifically the design decisions.

Attitude:

* Aim to put the architectural profession into community service, sensitive to human problems, open to environmental and social challenges, while respecting traditions, recognizing and protecting the values of the built and natural environment.

Autonomy:

- Doing the work in the knowledge of the social impact of the built environment.

Subject content

The course content is mainly a series of consultations in lab format. This is complemented by lectures, they are not frontal, but rather a discursive sharing of knowledge.

The course includes:

* Regular (weekly) supervision by a teacher of the Architectural Institute. There are generating feedbacks by Main Supervisor after consultations and exams.
* Short, discursive lectures

Examination and evaluation system

In all cases. Annex 5 of the Statutes of the University of Pécs, the Code of Studies and Examinations (CSE) of the University of Pécs shall prevail.

Attendance

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance: attendance record

The mere submission of the thesis work is not an eligible condition for obtaining the credits assigned to the subject in the curriculum. These credits can be obtained by students based on their performance in the process of preparing the diploma thesis.

The course ends with a signature, and the semester closes with Week 15. Students are required to present the topic of their research and their ability of academic writing regarding their chosen field of interest. During the semester, students’ attendance will be registered in the consultation frameworks, and reported to the design supervisors.

Readings and Reference Materials

Crysler, C.G., Cairns, S., and Heynen, H. (eds.) The SAGE Handbook of Architectural Theory, SAGE, 2012.

Frampton, K. Modern Architecture: a Critical History, Oxford University Press, 1980.

Scruton, R. Green Philosophy: How to Think Seriously About the Planet, Atlantic Books, 2012.

Methodology

The course is based on through collaboration, participation and discussions trough lessons. This is an interaction between Students and professors; used the teaching methods like ‘Problem-based learning’ and ‘learning-by-doing’.

Method:

1. continuous consultation during class time, according to announced in the detailed course programme

2. independent work at home

3. independent research, data collection, analysis

Students with Special Needs

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Annex:

A01 Formal requirements

A02 Code of Studies and Examinations

Course programme

Legend:

L = Lecture

S = selection

C = consultation

CC = critical consultation

F = final presentation

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| --- | --- | --- | --- |
| week | activity | purpose | evaluation |
| 1 | L | Opening presentations Friday, 13.00, É81Dr. Péter Zilahi | attendance |
|  | S | Selection of project tasksFriday, 13.00, É81Students are required to make a digital presentation of their public building plans from previous semesters (at least 2) The presentation should be no longer than 5 minutes.The presentation should show the functional and structural context of the buildings.The jury will then discuss the strengths and weaknesses of the designs with the student. They will then decide which work should form the basis of the course. | verbal assessment and selection |
| 2 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 3 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 4 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 5 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 6 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 7 | CC | Critical ConsultationFriday, 13.00, É81In the critical consultation, the task is presented in a hybrid mode. All concept diagrams and visualizations must be presented digitally. Technical drawings may also be included in the digital presentation.Technical drawings must be presented in printed format. The size of the posters is optional.Required content:Diagrams:* functional diagrams
* site analysis
* exploded axonometric drawings
* 3 visualizations

Technical drawings:* site plan 1:200
* floor plan(s) 1:50
* sections (at least two) 1:50
* elevations m=1:50
* detail drawings (at least five) m=1:10
 | short verbal feedback and scoring, maximum 20 pointsEvaluation criteria:* connections and relations between the human, natural and architectural environment
* social, economic, and ethical responsibility
* structural and building structural solutions
* aesthetic, functional, technical, economic and social requirements
* high-quality, harmonious architectural products
 |
| 8 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 9 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 10 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 11 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 12 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 13 | C | ConsultationsFriday, 13.00, É81During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 14 | F1 | Final PresentationFriday, 13.00, É81In the final presentation, the task is presented in a hybrid mode. All concept diagrams and visualizations must be presented digitally. Technical drawings may also be included in the digital presentation.Technical drawings must be presented in printed format. The size of the posters is optional.Required content:Diagrams:* functional diagrams
* site analysis
* exploded axonometric drawings
* 3 visualizations

Technical drawings:* site plan 1:200
* floor plan(s) 1:50
* sections (at least two) 1:50
* elevations m=1:50
* detail drawings (at least ten) m=1:10
* paper model 1:200 with wider environment
 | verbal feedback and scoring, maximum 80 pointsEvaluation criteria:* connections and relations between the human, natural and architectural environment
* social, economic, and ethical responsibility
* structural and building structural solutions
* aesthetic, functional, technical, economic and social requirements
* high-quality, harmonious architectural products
 |
| 16 | F2 | Final Presentation13.12.2024In the final presentation, the task is presented in a hybrid mode. All concept diagrams and visualizations must be presented digitally. Technical drawings may also be included in the digital presentation.Technical drawings must be presented in printed format. The size of the posters is optional.Required content:Diagrams:* functional diagrams
* site analysis
* exploded axonometric drawings
* 3 visualizations

Technical drawings:* site plan 1:200
* floor plan(s) 1:50
* sections (at least two) 1:50
* elevations m=1:50
* detail drawings (at least ten) m=1:10
* paper model 1:200 with wider environment
 | verbal feedback and scoring, maximum 80 pointsevaluation criteria:* connections and relations between the human, natural and architectural environment
* social, economic, and ethical responsibility
* structural and building structural solutions
* aesthetic, functional, technical, economic and social requirements
* high-quality, harmonious architectural products
 |

If the announced locations need to be changed, we will inform you in time via the TEAMS interface!

Registration for Final Closing Examinations: December 8, 2024 (Sunday) until 00:00 am

Late reg. (subject to a fee): December 23, 2024 (Monday) until 00:00 am

Deadline for Uploading the Thesis: January 7, 2025 (Tuesday) 00:00 pm

Signature of the Thesis Course,

Issue of Examination Sheet: January 9, 2025 (Thursday) 00:00 pm

Final examination period: starts: January 21, 2025 (Tuesday)

ends: January 30, 2025 (Thursday)

Graduation ceremony: February 7, 2025 (Friday)

Pécs, 23.08.2024

 Dr. Péter ZILAHI

 responsible lecturer