# General Information:

Name of Course: DESIGN STUDIO 2.

Course Code: EPE312ANEM

Semester: 2nd

Number of Credits: 8

Allotment of Hours per Week: 1 /0 / 4

Evaluation: Signature (with grade)

Prerequisites: Completed Design studio 1, and Building Constructions 1.

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## General Subject Description

The Design Studio 2. course is studio work in the 1st year of the Architecture curriculum and is carried out as the first individual design project. This course will explore the most fundamental part of the design process as an introduction to architectural design: design from the basics – creating a shelter: the HOME. The main focus will be on the private environment and homes, so students are given a theoretical and practical basis for designing residential buildings in lectures.

The studio is meant to challenge the student's preconceptions about architecture while enabling them to become critical of the built environment. Emphasis will be placed on the formation of ideas and the student's abilities to carry these ideas throughout the design process.

Several themes discussed in Design Studio 1 will be enhanced throughout the semester, including spatial experience – influenced by light, contextual analysis, formal concepts. The architectural study process includes models, drawings, diagrammatic, and analytical, and other visual material necessary to verify a concept or idea. The design process is a visual one through which thoughts must be recorded in the form of drawings and models.

The analysis of diverse design problems should result in complex residential building designs in an architecturally creative and appealing way. The lectures focus on the following topics which help to achieve this: functional spatial arrangements in a house, layout schemes in case of diverse settings and orientations, the hierarchy of the spaces, the cohesion of formal and functional elements, coherence of inside and the outside, the importance of transitional spaces, the need for sustainability, low maintenance, analysis of some residential building types and contemporary examples.

In the semester assignments students present their understanding of complex design problems of the massing process, setting, functionality, aesthetics, spatial and structural coherence.

The course is based on the development of 2 basic architectural design projects in the practical part (marked with a P) and some research in the form of studies and oral presentations on the lectures' content (marked with an L).

Projects are to be shown and presented for all tutors in the class, where there is the possibility of making some improvements after the critic if needed to get a better grade.

## Learning Outcomes

Upon completion of this course, students should be able to interpret the different trends in architecture theory, visual communication techniques and apply their creativity with the knowledge of technical skills.

The course will focus on:

-       Developing the ability to think intuitively and creatively

-       Examining and exploring the meaning and rules in residential architecture

-       Questioning and examining the aspects of planning, human resources and legal concerns in direct relation to the specifics of design.

-       Clear architectural communication at the presence of Professor’s Group

-       Carrying out within a specified time.

## Subject content

As the first design studio course students attend in the Architecture graduate program, it aims to provide the knowledge and firm basis of an individual architectural approach needed to acquire the final degree.

The course focuses on the design procedure of a new multi-story residential building. Students have to define the client, establish the program, propose and develop the design, schedule the work.

The finished and accepted project is shown and presented at the end of the semester in front of a Lecturer’s Group to demonstrate the acquired architectural knowledge and abilities.

The Project’s course includes:

-       Regular (weekly) supervision by the assigned tutor (teacher of the Architectural Institute).

-       Booklet about the process contains sketches, ideas, the design process, etc.

-       The Design Projects are to be documented as detailed as planning permission requires, presented as a summary of the drawings of the documentation (floor plans, sections, elevations 1:100, 3D graphic, model),

-       Examinations in three stages (as in the Schedule of the Course).

## 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. https://english.mik.pte.hu/codes-and-regulations*

**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 (e.g.: attendance sheet / online test/ register, etc.)

Attendance is required for all classes and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 15% of the total number of lessons (it is max. 2 lessons) will be grounds for failing the class. To be initially and stay in class until the lesson's scheduled end is required, a delay of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

The highest possible grade on the late project (after Study Period before Exam Period) is ‘2’.

*Grading will follow the course structure with the following weight:*

Project Presentation 01 40p » 40%,

 Model 10p + concept 10p + functionality 10p + graphics 10p

Project Presentation 02 40p » 40%

 Model 10p + concept 10p + functionality 10p + graphics 10p

Test » 15%.

The remaining 5% will be assessed according to participation, progress, effort, and attitude.

Please note that attendance will adversely affect one's grade, both in direct grade reduction and missing work in the development of a project.

The final grade will be based on the following guidelines:

**(Grade 5)** **Outstanding work.** Execution of work is thoroughly complete and demonstrates a superior level of achievement overall with explicit attention to detail in the production of drawings, models, and other forms of representation. The student can synthesize the course material with new concepts and ideas creatively and can communicate and articulate those ideas in an ideal way.

**(Grade 4)** **High quality work.** Student work demonstrates a high level of craft, consistency, and thoroughness throughout drawing and modeling work. The student demonstrates a level of thoughtfulness in addressing concepts and ideas and participates in group discussions. Work may demonstrate excellence but less consistently than a ‘5’ student.

**(Grade 3)** **Satisfactory work.** Student work addresses all of the project and assignment objectives with few minor or major problems. Graphics and models are complete and satisfactory, exhibiting minor problems in craft and detail.

**(Grade 2)** **Less than satisfactory work.** Graphic and modeling work is substandard, incomplete in significant ways, and lacks craft and attention to detail.

**(Grade 1)** **Unsatisfactory work.** Work exhibits several major and minor problems with basic conceptual premise, lacking both intention and resolution. Physical representation in drawing and models is severely lacking, and is weak in clarity, craft and completeness.

Grading Scale:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, good | C, average | D, satisfactory | F, Fail |
| Evaluation in points: | 85%-100% | 70%-84% | 55%-69% | 40%-54% | 0-39% |

***Re-takes for the end-of-semester signature*** *(PTE TVSz 50§(2))*

*The specific regulations for grade betterment and re-take must be read and applied according to the general Code of Studies and Examinations. E.g.: all the tests and the records to be submitted can be repeated/improved each at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.*

## Readings and Reference Materials

**Required:**

## Architectural design tools in practice – MIK – <https://issuu.com/pte_mik_english_edu_material/docs/architectural_design_tools_in_practice>

Architectural graphing – MIK - <https://issuu.com/pte_mik_english_edu_material/docs/architectural_graphing_k>

Architectural thinking – MIK - <https://issuu.com/pte_mik_english_edu_material/docs/architectural_thinking_k>

**More:**

* + [E.Neufert, P. Neufert (2002). Neufert Architects' Data](http://joom.ag/0Lhb)
	+ Bert Bielefeld: Spaces in Architecture (Birkhäuser) 2018
	+ Bert Bielefeld: Architectural Design Basics (Birkhäuser)
	+ Julia McMorrough (2014). Drawing for Architects: How to Explore Concepts, Define Elements, and Create Effective Built Design through Illustration
	+ Pressman, A. (1993). Architecture 101: a guide to the design studio. New York: Wiley.
	+ Unwin, S. (2003). Analysing architecture (2nd ed). New York: Routledge.
	+ [Julius Panero, Martin Zelnick (1979) Human Dimension and Interior Space: A Source Book of Design Reference Standards ISBN 0823072711. Watson-Guptill](http://joom.ag/WYhb)
	+ [Francis D. K. Ching (2002) Architectural Graphics Fourth (4th) Edition. JOHN WILEY & SONS, INC.](http://joom.ag/DLhb)

## Methodology

The course is based on through collaboration, participation and discussions trough lessons. This is an interaction between Students and Faculty; used the teaching methods like ‘Problem-based learning’ and ‘learning-by-doing’. The communication and work should reflect a respect for fellow students and their desire to work with regard to noise levels, noxious fumes, etc. – from each site of participants. (You will need: tracing paper roll, scale ruler, sketchbook, pencils, pens, rulers, cardboard for modeling, notebook, internet.)

## 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.

# **Detailed requirements and schedule of the Course**

The semester is divided into two principle periods and exercises. The rough outline of the schedule is as follows:

**P1 Week 1-5:** Design of a cabin/loft like house in a suburban neighborhood – based on the cube model done in Design Studio 1- 7,5\*7,5\*7,5 m incl. wall and roof structures - with plain landscape for a single or a couple *without children with guest/study area* (home office)

In accordance with the scale, the minimum of interior partitions should be used – emphasis is on the spatial separation based on leveling and furnishing.

Week 7: PROJECT PRESENTATION 1st DESIGN (40p – min. 20p) (40% of the semester grade)

- Required content presented with hardline drawings on paper – A4 booklet:

o Diagrams and sketches explaining the design process and idea developing

o Analyses of the site, functionalities, (inspirations, examples, conditions, relationships in space, needs and requirements, etc.)

o Presentation of the Building Site (analyses, diagrams, maps, materials, primer structures), master plans, geographical and morphological conditions)

o Site Plan with the Building’s Surrounding (1:200) (with built and natural environment-

a./ the building site’s boundaries, fences, gates, parking places

b./ the connecting road system inside and outside the plot

c./ the cardinal points

d./ the planned building and objects with main dimensions, and dimensions of height e./ covered and green areas

o Floor plan (1:100) (with openings, rooms with dimensions, flooring)

o Sections (1:100) (at least 2, but all those are needed which are necessary for the understanding)

o Elevations (1:100 – all 4)

o Perspective Views, Details, Architectural Ideas (all those necessary to understand the design, but at least 3)

o Scaled Model incl. site (1:100)

**P2 Week 8-14:** Design of a multilevel house in a suburban neighborhood on a slope - for a family with 3 children.

*Residential house- suiting a defined family type. Social factors also affect the development type*

Design process of a new residence for a small family (0-3 children) with necessary flexibility suiting different people and lifestyles, providing a healthy and sustainable living space. The interior should be well-functioning and sensible. Architectural qualities in the areas of light, space and materials must be included for the well-being of the tenants.

You should:

* choose one of the project’s site
* try different settings, concepts
* analyze the situation, the environment, and conditions
* analyze the architectural character of the chosen project site
* analyze and define different people and lifestyles/life situations
* analyze and define the type and functional needs of the occupants/tenant

Week 15: Final Jury. – 2nd DESIGN PROJECT (40p – min.20p) (40% of the semester grade)

* Required content presented with A4 or A3 posters:
	+ Site Plan (1:500,1:250,1:200)

a./ the building site’s boundaries, fences, gates, parking places

b./ the contour lines of the slope, the main level heights

c./ the connecting road system inside and outside the plot

d./ the cardinal points

e./ the planned buildings and objects of the plot with their names, main measurements, and height dates

f./ the sign and names of roads, plastered and green areas, the main level heights

g./ the height of ledge and ridge, the number of stories

h./ tracks of the public utilities

 i./ the circulation of vehicles, transportation, people with different signs

 j./ eventual possible extension

* + Plans of Each Different Level (1:100)

a./ beyond the main dimensions the rooms contain the area (sqm) too

b./ doors with opening direction, windows with subdivisions

c./ marking the functional necessary installation

d./ the function, area and flooring of the rooms (so called zone stamp)

e./ the immediate surroundings – adjacent places

* + Sections (1:100,), in the necessary number for understanding – at least 2

a./ the typical height measurements and the dimensions of the load bearing structure etc.

b./ the level heights

c./ structures and materials, the order of layers

d./ the main equipment with greater need of space

* + Elevations of Each Different Orientation (1:100) – min. 4
	+ Views (in necessary number for understanding, min. 3 about the inner and 3 about the outer spaces), in high quality design and graphic
	+ Final Model of Project with the surrounding (1:200)

Week 17: Re-Review of unaccepted projects (without verbal presentation)

**Weekly schedule**

|  |  |  |
| --- | --- | --- |
| week 1 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „1” | practice | lecture |
| Method/reading | discussion | Architectural Design Basics Page 18-41 |
| 08.Feb | introducing the 1st design project, choosing the site | Program developing, setting |
| week 2 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „1” | practice | lecture |
| Method/reading | consultation, independent work | Spaces in Architecture Page 39-49; 61-85 |
| 15.Feb | correction of the cube, analysis of the possible settings  | functionality and dimensions in a dwelling |
| week 3 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „1” | practice | lecture |
| Method/reading | consultation, independent work | Architect’s data p. 40+158+191-193 |
| 22.Feb | spatial planning - alternative arrangements of functions | functional relations in a dwelling |
| week 4 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „1” | practice | lecture |
| Method/reading | consultation, independent work | TEST – 15p no min. (15% of the semester grade) |
| 01.Mar | floorplans and sections | functional relations and dimensions |
| week 5 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „1” | practice | lecture |
| Method/reading | consultation, independent work | Drawing for Architects page 24-57 |
| 08.Mar | floorplans, sections, elevations | case studies, graphics and models |
| week 6 | NATIONAL HOLIDAY | INDEPENDENT WORK  |
| week 7 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „1” | presentation of the 1st PROJECT | lecture |
| Method/reading | discussion |
| 22.Mar | announcement of the 2nd project  |
| week 8 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „2” | practice | lecture |
| Method/reading | consultation, independent work | Architect’s data page 272-275; 288 |
| 29.Mar | modeling of the site (modeling materials are needed) | possible settings of a slopy site |
| week 9 | SPRING BREAK | INDEPENDENT WORK  |
| week 10 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „2” | practice | Lecture  |
| Method/reading | consultation, independent work | Architectural Design Basics Page 138-140; |
| 12. April | analysis of the setting, developing the volume | spatial consequences of topography + orientation |
| week 11 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „2” | practice | lecture |
| Method/reading | consultation, independent work | Architectural Design Basics Page 189-234; |
| 19. Apr | spatial planning - alternative arrangements of functions - effects on the volume | structural solutions  |
| week 12 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „2” | practice | lecture |
| Method/reading | consultation, independent work | Architectural Design Tools in Practice page 22-63 |
| 26. April | floorplans and sections | case studies |
| week 13 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „2” | practice | lecture |
| Method/reading | consultation, independent work | Architectural thinking page 47-48Architect’s data page 101-105 |
| 03.May | floorplans, sections, elevations | sustainability |
| week 14 | Wednesday 15:45-19:15  | Wednesday 15:00-15:45  |
| period „2” | practice | lecture |
| Method/reading | consultation, independent work | Architectural Design Tools in Practice page 96-113 |
| 10.May | floorplans, sections, elevations, finalizing the model and the documentation | interior design solutions |
| week 15 |  Final presentation |
| 17.May | Closing the semester |
| week 17 | !!! LAST CHANCE TO GET A SIGNATURE AND GRADE!!! |
| 30.May | Re-Review / corrections |

We reserve the right to make changes to the details of this course syllabus (date / location / clarifications), which will be communicated to the students. In case of questions and problems that arise during the semester contact the responsible lecturer or the study program coordinator.

 Erzsébet Szeréna ZOLTÁN dr.

responsible lecturer

Pécs, 25.01.2023