# 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 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 one of the first design studio courses 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.

During the lectures, students will learn about the regulations for residential buildings, the requirements of modern living space design, spatial construction methodology and design principles. The aim is to develop a correct and modern way of thinking and behaviour, in addition to the acquisition of basic knowledge, with the help of contemporary examples.

The practical sessions will apply the theoretical knowledge acquired. In the group sessions, the tutors will help you to learn the analytics and methods of the design process.

In the first third of the semester, students will analyse the topic of modern living space in practical classes. This is a spatial organisation and design exercise, which aims to enable students to master and practise the possibilities and methods of functional subdivision of the residential building, the differences between spatial delimitation situations between functions, the constraints of space use and size resulting from furnishing. Sketches, mass models and technical drawings are used to solve the task.

For the rest of the semester, a small-scale residential building for permanent residence will be constructed on the site, based on the architectural programme, concept of installation and design, etc. A "schematic design" and "architectural" documentation will be submitted and approved in two stages, with the content specified in the theme.

Through continuous experimentation, responding to the architectural possibilities identified during the design process, students will eventually arrive at complex spatial relationships and architectural forms, and present these with architectural-technical drawings and models at an appropriate level of completion. Visual presentation and architectural quality will be a key assessment criterion. The plan is evidence of the student's ability to solve architectural problems independently and to draw conclusions about the built environment - the student will become familiar with the working methods of a conscious architectural creative process.

Assignments and requirements are issued according to the theme and uploaded to the course's Microsoft Teams platform, together with the lecture materials and aids. Information related to the subject will also be available on this interface.

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 - studio 20p » 20%,

Model 10p + concept, functionality, graphics 10p

*min. required 10p*

Project Presentation 02 - house conceptual phase 20p (Model 5p concept 5p functionality 5p graphics 5p) *no. min. requirement*

Final documentation of the design 50p » 50%

Model 15p + concept 10p + functionality 15p + graphics 10p

*min. required 25p*

Test 10p » 10%.

*min. required 5p*

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% |

The basis on which each grade is determined:

\_meeting the requirements of the terms of reference

\_the practical application of the theoretical knowledge acquired

\_the technical, graphical and architectural content and quality of the tasks

*The end-of-semester grade will be based on the points earned in the assignments, the student's attendance in the practical classes according to the Code of Studies and Examinations, active participation in the semester work, and the quality of all assignments submitted. The student's activity/inactivity, progress and participation in lectures during the semester will be taken into account (PTE CoSE § 48 (2)213 The student will not receive any credit points if his/her performance is assessed as unsatisfactory (1) or not satisfactory (1), and if the student's performance was not assessable and the academic record is marked as "not fulfilled". (4) There is no right of appeal against the assessment, except for the correction or scoring error and the possibility provided for in Article 12(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, or 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)

<https://www.archdaily.com/>

<https://www.dezeen.com/>

<https://www.divisare.com/>

## 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:**

1. design task - "space planning design task"

A spatial organisation - spatial design task, the aim of which is to enable students to master and practise the possibility and method of functional division of a residential building, the difference between spatial delimitation situations between functions, the constraints of space use and size resulting from furnishing.

Under the guidance of a consultant, a fixed rough cubature of 6 x 10 x 5 (height) metres in terms of internal spaces will be designed. Positive and negative spaces and penetrations can be created. The open surfaces (on one side, over the whole surface!) and the light/shade conditions must be taken into account. By shaping this space from the inside, a coherent system of spaces is created, which functions as a living space. The purpose of this exercise is to design and document the spatial relationships, the external shaping of the spatial structure is not an exercise in terms of the final result, i.e. no building is yet designed.

a. List of functions to be addressed (during the consultation process, it is possible that some rooms may be grouped into function groups, not necessarily separated into rooms, and therefore not necessary to separate them where justified):

entrance access space system:

- Entrance hall or vestibule (case-dependent)

necessary areas of permanent residence may be e.g:

- kitchen + dining room + pantry \_\_ dining, cooking, food storage area (with outdoor connection)

- living room

spaces for rest e.g:

- parents' bedroom + wardrobe + bathroom

- children's bedroom (case dependent)

- guest bedroom + bath (case dependent)

- other necessary contents:

- bathroom + toilet

- utility room, laundry room (case-dependent)

Week 4: PROJECT PRESENTATION 1st DESIGN (20p – min. 10p) (20% 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 - Furnishing plan and floor plan 1:100

- section, wall view (2 pieces) 1:100

- Interior perspective drawings (other techniques can be agreed) (3 pcs)

- Pictorial illustration of each function group, function with inspirations

- Model under the guidance of the consultant, with reference to the furnishing and vertical relationships 1:100

**P2 Week 5-14:** 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 8: critical consultation– submission of the conceptual design phase 20p (20% of the semester grade)

* Required content presented with A4 or A3 posters:

the following studies should be carried out and documented: environmental conditions (location, climate, topography, scale, existing vegetation), interpretation of site conditions (site geometry, orientation), form, definition of main directions, definition of main groups of functions. The design guidelines should be presented in flow charts, infographics, drawings, working model photographs, mock-ups. Documenting the design process (the creation) is important for a coherent design.

to be submitted:

- required number of conceptual drawings, parti diagrams (architectural program, space and form)

- site plan, installation drawing 1:500

- floor plans up to the site boundary 1:200

- sections (min. 1) 1:200

- massing drawings min: 3-3 pcs

- sketch plan model with surroundings 1:200

Week 14: 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)

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 equipments 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 (1:100)

Week 16: Re-Review of unaccepted projects (without verbal presentation)

**Weekly schedule**

|  |  |  |
| --- | --- | --- |
| week 1 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „1” | practice | lecture |
| Method/reading | discussion | Architectural Design Basics Page 18-41 |
| 07.Feb | introducing the 1st design project | Program developing, setting |
| week 2 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „1” | practice | lecture |
| Method/reading | consultation, independent work | Spaces in Architecture Page 39-49; 61-85 |
| 14.Feb | spatial planning - alternative arrangements of functions | functionality and dimensions in a dwelling |
| week 3 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „1” | practice | lecture |
| Method/reading | consultation, independent work | Architect’s data p. 40+158+191-193 |
| 21.Feb | floorplans, sections, wall-views, interior details | functional relations and dimansions in a dwelling |
| week 4 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „1” |  | lecture |
| Method/reading | presentation of the 1st PROJECT | Architect’s data page 272-275; 288 |
| 28.Feb | Announcement of project 2 | possible settings of a slopy site |
| week 5 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „2” | practice | lecture |
| Method/reading | consultation, independent work | Architectural Design Basics Page 138-140; |
| 06.Mar | Site analysis, investigating different settings | spatial consequences of topography + orientation |
| week 6 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „2” | practice | TEST – 10p min. 5 (10% of the semester grade) |
| 13. March | modeling of the site (modeling materials are needed) - |  |
| week 7 | Wednesday 15:00-18:15 | Wednesday 18:30-20:00 |
| period „2” | analysis of the setting, developing the volume with the help of mock ups - – draft models for volume | lecture |
| Method/reading | Architectural Design Basics Page 189-234; Architectural thinking page 47-48  Architect’s data page 101-105 |
| 20.Mar | structural solutions, sustainability, interior design solutions |
| week 8 | Wednesday 15:00-18:15 | Wednesday 18:30-19:15 |
| period „2” | practice | TEST – 10p RE-take – min. 5p |
| Method/reading | consultation, independent work |  |
| 27.Mar | spatial planning - alternative arrangements of functions - effects on the volume |  |
| week 9 | Wednesday 15:00-18:15 | April 3 |
| period „2” | Critical consultation – SUBMISSION OF THE CONCEPTUAL PLAN 20p – no min. | |
| week 10 | Wednesday 15:00-18:15 |  |
| period „2” | practice |  |
| Method/reading | consultation, independent work |  |
| 10. April | floorplans and sections |  |
| week 11 | Wednesday 15:00-18:15 |  |
| period „2” | practice |  |
| Method/reading | consultation, independent work |  |
| 17. Apr | Finalizing floorplans and sections |  |
| week 12 | Wednesday 15:00-18:15 |  |
| period „2” | practice |  |
| Method/reading | consultation, independent work |  |
| 24. April | floorplans and sections, elevations |  |
| week 13 | Wednesday 15:00-18:15 | [International Workers' Day](https://en.wikipedia.org/wiki/International_Workers%27_Day) |
| week 14 | Wednesday 15:00-18:15 |  |
| period „2” | Closing the semester | Critical consultation task 2 |
| 8.May | Last chance to improve task 1 | floorplans, sections, elevations, finalizing the model and the documentation |
| week 16 | 22.May  !!! LAST CHANCE TO SUBMIT IMPROVEMENTS & GET A GRADE!!! | |

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, 25.01.2024