

### General Information:

<b>Name of Course:</b>	<b>DESIGN STUDIO 2.</b>
<b>Course Code:</b>	EPE312ANEM
<b>Semester:</b>	2nd
<b>Number of Credits:</b>	8
<b>Allotment of Hours per Week:</b>	1 Lectures and 4 Practical Lessons /Week
<b>Evaluation:</b>	Signature (with grade)
<b>Prerequisites:</b>	<b>Completed Design studio 1, and Building Constructions 1.</b>

**Responsible lecturer:** **Erzsébet Szeréna ZOLTÁN dr., associate professor**  
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**Instructors:** **Ágnes BORSOS dr., associate professor**  
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### General Subject Description

The Design Studio 2. course is studio work in the Master of Architecture program, and is carried out as the first individual design project. As an introduction to architectural design, this course will explore the most fundamental part of the design process: design from the basics – creating a shelter: the HOME. Main focus will be on the private environment, the making of 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 abilities of the student 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 process of architectural study includes models, drawings, diagrammatic as well as 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 forms of drawings and models.

The analysis of diverse design problems should result in complex residential building designs in an architecturally creative and appealing way.

To achieve this, lectures are given in the following topics: functional spatial arrangements in a house, layout schemes in case of diverse settings and orientations, 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 form of studies and oral presentations the content of the lectures (marked with an L).

The projects are shown and presented for all the tutors in the class, where after the critic there is the possibility to make some improvements if needed for a better grade.

The course focuses on the design procedure of a new multi-storey 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 present at the end of the semester at the front of a Lecturer's Group for demonstrate the acquired architectural knowledge and abilities.

### 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 individual 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 which is needed to acquire the final degree.

The Project's course includes:

- Regular (weekly) supervisions 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 a 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>*

Attending is required 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 lesson (it is max. 2 lesson) will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness 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, 40%, Project Presentation 02, 40, 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 in 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 a clear attention to detail in the production of drawings, models and other forms of representation. The student is able to synthesize the course material with new concepts and ideas in a thoughtful manner, and is able to communicate and articulate those ideas in an exemplary fashion in.

**(Grade 4) High quality work.** Student work demonstrates a high level of craft, consistency, and thoroughness throughout drawing and modelling 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 an '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 modelling 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:	88%-100%	77%-87%	66%-76%	55%-65%	0-54%

## Readings and Reference Materials

### Required:

- Ching, F. (1996). *Architecture: form, space, & order* (2nd ed). New York: Van Nostrand Reinhold

### More:

- Julius Panero, Martin Zelnick (1979) *Human Dimension and Interior Space: A Source Book of Design Reference Standards* ISBN 0823072711. Watson-Guptill
- Francis D. K. Ching (2002) *Architectural Graphics Fourth (4th) Edition*. JOHN WILEY & SONS, INC.
- E. Neufert, P. Neufert (2002). *Neufert Architects' Data*
- 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.
- Bert Bielefeld: *Spaces in Architecture* Basel: Birkhäuser 2018 b

## Methodology

The course is based on through collaboration, participation and discussions through 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 modelling, 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

### Schedule

The semester is divided into two principle periods and attendant exercises.

The rough outline of the schedule is as follows:

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P Week 1-5: Design of a house in a suburban neighborhood – based on the cube model done in Design Studio 1- with plain landscape for a young family without children with guestroom/study or 1 child.

### Week 6: PROJECT PRESENTATION 1st DESIGN (40p)

- Required content presented on printed posters:
  - Diagrams and sketches explaining the design process and idea developing
  - Analyses of the site, functionalities, (inspirations, examples, conditions, relationships in space, needs and requirements, etc.)
  - Presentation of the Building Site (analyses, diagrams, maps, materials, primer structures), master plans, geographical and morphological conditions)
  - 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
  - Floor plan (1:100) (with openings, names and dimensions, flooring)
  - Sections (1:100) (at least 2, but all those needed for the understanding)
  - Elevations (1:100 – all 4)
  - Views, Details, Architectural Ideas (all those necessary to understand the design, but at least 3)
  - Scaled Model incl. site (1:200)

**P Week 7-15: Design of a multilevel house in a suburban neighborhood on a slope - for a family with 3 children.**

**Week 16: Final Jury. – 2nd DESIGN PROJECT (40p)**

- Required contain presented with printed posters:
  - o 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 measures, and height dates f./ the sign and names of roads, covered 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
  - o Plans of Each Different Levels (1:100) a./ beyond the main dimensions contain the measures of each room b./ doors with opening direction, windows with subdivisions c./ marking the functional necessary installation d./ the names, measures and coverings of the rooms e./ marking the close surroundings
  - o Sections (1:100,) in necessary number for understanding) a./ the typical height measures and the plan measures of the axis b./ the level heights c./ the names of the structures and materials, the order of layers d./ the main equipment with greater need of space
  - o Elevations of Each Different Side (1:100)
  - o Views (in necessary number for understanding, min. 3 about the inner and 3 about the outer spaces), in high quality design and graphic
  - o Plot and Building’s Surrounding Paper Model (1:500), and Final Modell of Project (1:200)

Week 17: ReReview of unaccepted projects (without verbal presentation)

week 1	Wednesday 11:15-14:45 A206	Wednesday 15:00-15:45 A206
period „1”	practice	lecture
method	discussion	
06.Feb	introducing the 1st design project, choosing the site	Program developing, setting
week 2	Wednesday 11:15-14:45 A206	Wednesday 15:00-15:45 A206
period „1”	practice	lecture
method	consultation, independent work	
13.Feb	correction of the cube, analyzis of the the possible settings	functionality and dimensions in a dwelling
week 3	Wednesday 11:15-14:45 A206	Wednesday 15:00-15:45 A206
period „1”	practice	lecture
method	consultation, independent work	
20.Feb	spacial planning - alternative arrangements of functions	functional relations in a dwelling
week 4	Wednesday 11:15-14:45 A206	Wednesday 15:00-15:45 A206
period „1”	practice	lecture
method	consultation, independent work	test
27.Feb	floorplans and sections	functional relations and dimensions
week 5	Wednesday 11:15-14:45 A206	Wednesday 15:00-15:45 A206
period „1”	practice	lecture
method	consultation, independent work	case studies
06.Mar	floorplans, sections, elevations	graphics and models

<b>week 6</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
period „1”		lecture
method	presentation of the 1st PROJECT	discussion
13.Mar		announcement of the 2nd project
<b>week 7</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
period „2”	practice	lecture
method	consultation, independent work	
20.Mar	modelling of the site (modelling materials are needed)	possible settings of a slopy site
<b>week 8</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
period „2”	practice	lecture
method	consultation, independent work	
27.Mar	analyzis of the setting, developing the volume	spacial consequences of topography + orientation
<b>week 9</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
period „2”	practice	lecture
method	consultation, independent work	
03.Apr	spacial planning - alternative arrangements of functions - affects of the volume	structural solutions
<b>week 10</b>	<b>Spring break</b>	
11.Apr	independent work - functional arrangement, finalizing the volume	
<b>week 11</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
ciklus „2”	practice	lecture
method	consultation, independent work	
17.Apr	floorplans and sections	case studies
<b>week 12</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
ciklus „2”	practice	lecture
method	consultation, independent work	
24.Apr	floorplans, sections, elevations	sustainability
<b>week 13</b>	<b>Holiday / International Worker's day</b>	
01.May	independent work - finalizing the floorplans, section, materiality	
<b>week 14</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
ciklus „2”	practice	lecture
method	consultation, independent work	
08.May	floorplans, sections, elevations	interior design solutions
<b>week 15</b>	<b>Wednesday 11:15-14:45 A206</b>	<b>Wednesday 15:00-15:45 A206</b>
ciklus „2”	practice	lecture

method consultation, independent work  
15.May finalizing the model and the documentation evaluation of the term

**week 16**

22.May Final presentation

**week 17**

29.May Re-Review / corrections

**Task description**

*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, and providing a healthy and sustainable living space. The interior should be a 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 projects 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

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, 04.02.2019