

General Information:

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

Responsible lecturer: **ZOLTÁN dr., Erzsébet Szeréna associate professor**
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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 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, 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 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 points:	in 85%-100%	71%-84%	60%-70%	50%-59%	0-49%

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:

- 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 side 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 or study area* (home office)
In accordance with the scale, the minimum amount of interior partitions should be used – emphasis is on the spatial separation based on leveling.

Week 6: PROJECT PRESENTATION 1st DESIGN (40p – min. 20p)

- Required content presented on posters (on paper or as picture – depending on the COVID situation):
 - 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, names and dimensions, flooring)
 - o Sections (1:100) (at least 2, but all those needed 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 (1:200)

P2 Week 7-14: 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, 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 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)

- Required content presented with A4 or A3 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 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
- o Plans of Each Different Levels (1:100)
 - a./ beyond the main dimensions the rooms contain the area 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
- o Sections (1:100,) in 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./ 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) – min. 4
- 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 Model of Project (1:200)

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

week 1	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „1”	practice	lecture
method	discussion	
09.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	consultation, independent work	
16.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	consultation, independent work	
23.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	consultation, independent work	TEST – 20p (min. 10p)
02.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	consultation, independent work	case studies
09.Mar	floorplans, sections, elevations	graphics and models
week 6	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „1”		lecture
method	presentation of the 1st PROJECT	discussion
16.Mar		announcement of the 2nd project
week 7	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	lecture
method	consultation, independent work	
23.Mar	modeling of the site (modeling materials are needed)	possible settings of a slopy site
week 8	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	Lecture
method	consultation, independent work	
30.Mar	analysis of the setting, developing the volume	spatial consequences of topography + orientation
week 9	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	lecture
method	consultation, independent work	
06. Apr	spatial planning - alternative arrangements of functions - effects on the volume	structural solutions
week 10	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	lecture
method	consultation, independent work	
12. April	floorplans and sections	case studies
week 11	SPRING BREAK - independent work	
week 12	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	lecture
method	consultation, independent work	
27.Apr	floorplans, sections, elevations	sustainability
week 13	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	lecture
method	consultation, independent work	

04.May	floorplans, sections, elevations, finalizing the model and the documentation	interior design solutions
week 14	Wednesday 15:45-19:15	Wednesday 15:00-15:45
period „2”	practice	lecture
method	consultation, independent work	
11.May	finalizing the model and the documentation	evaluation of the term
week 15	Final presentation	
18.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, 02.02.2022