

Building Design 1.

- Kód: PM-RTENE017
- Szemeszter: 2
- Kreditszám: 5
- Órák száma (ea/gy/lab): 1/0/3
- Számonkérés módja: félévközi jegy
- Előfeltételek: [Basics of Architecture \(module B\)](#), [Basics of Architecture \(module C\)](#)
- Tantárgy felelős: Medvegy Gabriella dr.
- Tantárgy koordinátor: Medvegy Gabriella dr.

Rövid leírás:

This course serves as an introduction to the home environment and gives students a theoretical and practical basis for designing residential buildings. To achieve this, lectures are given in the following topics: arrangement of space in a house, fixtures in a house, suitable floor plan layout of spaces, external appearance of the building (familiarisation with an emphasis on the deviations and differences depending on sitting arrangements), service requirements, types of residential building, and the history of residential buildings.

In their semester assignment, students present the problems arising from mass formation and the sitting arrangements of buildings and during the practical sessions they prepare models and are taught techniques and tools of representation (drawing tools, methods and tools for modelling).

This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).

Általános követelmények:

[Bővebben...](#)

Cél:

Learning Objectives:

Upon completion of this course the student should be able to:

1. interpret, appraise and put it into practice
 - a. the differentiate trends in architecture theory,
 - b. planning techniques,
 - c. visual communication techniques,
 - d. environment design and the contemporary state of architecture
2. apply and employ their individual creativity with the knowledge of technical
3. analyze the design problems and the built environment
4. design a complex residential building in an architecturally creative style

Módszer:

Methods:

1. planning design, architecture theory, planning methods in the field of residential building design
2. esthetic, visual methods
3. architecture history, contemporary architecture of residential building planning
4. sustainability on field of residential building design
5. project-developing in practical way, continuous communications

Irodalom:

Required Reading and Other Materials will be equivalent to:

Required Reading:

BIELEFELD, Bert - EL KHOULI, Sebastian (2007). Basic Design Ideas, Basel.Boston.Berlin, Germany, Birkhäuser Verlag AG, ISBN 978 3 7643 8112 7

NEUFERT, Ernst - NEUFERT Peter (2000). Architect's Data, Wiley, ISBN: 0632037768, 9780632037766

Other Materials:

1. SERGEANT John (1976). Frank Lloyd Wright's Usonian Houses - The Case for Organic Architecture, first published 1976 in New York by Whitney Library of Design, an imprint of Watson- Gupill Publications a division of Billboard Publications, USA, ISBN 0 8230 7177 4
2. LINTON Harold and SUTTON Scott (1993). Sketching the Concept - Perspective Illustration for Architects, Designers & Artists. New York, USA, DESIGN PRESS, ISBN 0 8306 4070 3
3. STEELE James (1996). How House - RM Schindler. ACADEMY EDITIONS in Great Britain, ISBN 1 85490 442 6
4. DEAN David (1983). Architecture of the 1930s - Recalling the English Scene. USA, Rizzoli International Publications, Published in association with The Royal Institute of British Architects Drawings Collection, Inc. ISBN 0 8478 0485 2 (paperback), ISBN 0 8478 0484 4 (cloth)

Követelmények, pótlások:**Process:**

In this course students will focus on a practical residential building design. The small-scale dwelling design will include the overall planning process from creating a basic building concept to its finished plan and documentation. The main purpose of the course is to develop skills in correct and critical environmental analysis.

Students will design a small residential building over the duration of the semester. As a first step, students will evaluate the task, and plan the building program, form, create, and interpret the location, etc. Academic lectures on design work will support practicums on planning design.

The course project is designed for a fixed location, and an agreed upon program. Students will create a paper model of the building and complete documentation on the finished project. At midterm, students will present their draft plan; at the end of term, they will present their completed project.

There are lectures before the practical class, to lead on the planning methods to the realized HOUSE. The lectures are about the next steps of the creation, with architecture theories, important and related architecture history points and contemporary examples. The "sustainability" appears in every planning step.

The academic topics are fixed by practical methods; the skills are developed with personal communication between the lector and students. The practical work is in small groups, the students show their project in a row, and the project is evaluated by the lector and the students together. The continuous and personal communication is key question on the subject.

Evaluation of Student Performance:

1. Critique and evaluation of students projects, drawings and presentations. Quality of the designed building. Grading will follow the course structure with the following weight: draft plan 30% and project 60%, participation-activity 10%.
2. Class participation, class activity. Any unexcused absence will negatively affect your grade; 3 unexcused absences will result in failing the class. If you need to miss a class for any reason, please notify your professor by email prior to the start of that class.

Grading scale

Grade 5 4 3 2 1

Numeric Grade 100-86 85-76 75-66 65-56 55-0

1. Outstanding work
2. High quality work
3. Satisfactory work
4. Less than satisfactory work
5. Unsatisfactory work

Program (előadás):**Schedule:**

- I. Residential Buildings - Generally
 - A. History of Residential Building Design
 - B. Architectural Methodology
 - C. Architectural Theories
 - D. Architectural Purposes in Residential Building Design
 - E. Contemporary Examples
- II. Path of the Residential Building Design
 - A. The Location

- B. The Plot
- C. Form
- D. Space - Structures in the Building
- E. Program
- F. Function
- G. Furnishing and Function
- H. Materials of the Residential Building
- I. Sustainability
- III. Planning Points, Project Parts
 - A. Visual Communication Methods
 - B. Graphic Examples
- IV. Residential Buildings - Contemporary
 - A. Reasons
 - B. Naive, Folk, Popular
 - C. Trends, Future
 - D. Analyses, Examples

Program (gyakorlat):

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