

*General Information:*

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| <b>Name of Course:</b>              | <b>BUILDING DESIGN 5.</b>  |
| <b>Course Code:</b>                 | PMRTENE121A  |
| <b>Semester:</b>                    | 6th  |
| <b>Number of Credits:</b>           | 5  |
| <b>Allotment of Hours per Week:</b> | 2 Lectures and 3 Practical Lessons /Week   |
| <b>Evaluation:</b>                  | Signature (with grade)   |
| <b>Prerequisites:</b>               | <b>Completed Building Design 4., and Building Constructions 4.</b>   |
| <b>Responsible lecturer:</b>        | <b>Péter ZILAHÍ dr., assistant professor</b><br>Office: 7624 Hungary, Pécs, Boszorkány str. 2. B-327<br>E-mail: zilahi.peter@mik.pte.hu<br>Office phone: +36 72 503650/23840 |
| <b>Instructors:</b>                 | <b>Veronika HAJDU, assistant lecturer</b><br>Office: 7624 Hungary, Pécs, Boszorkány str. 2. B-327<br>E-mail: hajdu.veronika@mik.pte.hu<br>Office phone: +36 72 503650/23858  |

### General Subject Description

The Building Design 5. Course is studio work in the Architecture program, and is carried out as an individual design project during the mid - term of the programme. The course focuses on the design procedure of a public 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

The course will focus on:

- Developing the ability to think intuitively and creatively
- Examine and exploring of meaning and rules of public building architecture
- Bring questions and examine aspects of planning, human resources and legal concerns, all 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

Students are required to complete design work relating to a new public building and an actual building site. Students are required to submit all their plans documenting their work on the design and are assessed on the following aspects: architectural design, development concept, functionality, volume forming and space composition. For the preliminary and final plans only digital graphics can be used. Students are also required to complete a model of the plan in a material of their choice. The following aspects of public building design are covered: design work of specified types of public buildings, content programmes, optimal layout of the designed content on the floor plan, external appearance of the building, volume design practice, methods of representation, and preparation of colour designs. 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).

The Course includes:

- Regular (weekly) supervisions by teacher of the Architectural Institute. There are generating feedbacks by Main Supervisor after consultations and exams.
- Process Dairy Booklet (Sketch Book) which is assessed as part of the regular supervision by the Teacher contains sketches, ideas, the design process etc.
- 'Project Documentation' for planning permission of the designed building, as the summarize of the engineering working drawings documentation (ground plans, sections, elevations 1:100), and paper models (1:200). The drawing tasks must be backed up and attached on CD/DVD.
- Examinations in four stages (after 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, 10%, Project Presentation 02, 20%, Project Presentation - 03, 10%, Project Presentation - 04, 50%. The remaining 10% 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.
- Clark, R.H. and Pause M. (1996). *Precedents in architecture* (2nd ed). New York: Van Nostrand Reinhold.

#### 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 be 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: sketch paperroll, Rulerscale, sketchbook, pencils, pens, rulers, carton paper 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:

- Week 1: Preliminary lecture  
The site visit will be held on Friday (08.02.)
- Week 2: Lecture: Methodology of site analysis, case studies  
Project consultation: site analysis (site plan 1:1000, collection of examples)
- Week 3: Lecture: Case studies of functional programming  
Project consultation: site analysis (site plan 1:1000, 1:500, model 1:1000)
- Week 4: **PRESENTATION 01 (10 points)**  
The group of students (3-4 person) are required to demonstrate site analysis and programming ideas  
Required contain presented digitally:
- Analyzing figures
  - Collected examples
  - Site plan (1:500)
  - Model (1:1000)
- Project consultation: evaluating the result and further development of the plan
- Week 5: Lecture: Functional expectations  
Project consultation: programming (site plan 1:500, functional schema drawings, collection of examples, model 1:500)
- Week 6: Lecture: Form and function  
Project consultation: Function and design (site plan 1:500, floor plans 1:200, sections 1:200, model 1:200, model 1:500)
- Week 7: Lecture: Form and structure  
Project consultation: Function and design (site plan 1:500, floor plans 1:200, sections 1:200, model 1:200, model 1:500)
- Week 8: **PRESENTATION 02 (20 points)**  
Required contain presented with printed posters:
- Analyzing figures
  - Site plan (1:500)
  - Functional schema drawings
  - Floor plans (1:200)
  - Sections (1:200)
  - Visualizations (4 exterior renderings)
  - Model (1:500)
  - Model with environment (1:200)
- Week 9: Lecture: Case studies  
Project consultation: Design of structure (site plan 1:500, floor plans 1:100, sections 1:100, model 1:200)
- Week 10: *Spring holiday*
- Week 11: **PRESENTATION 03 (10 points)**  
Required contain presented digitally:
- Site plan (1:500)
  - Structural schema drawings
  - Floor plans (1:100)
  - Sections (1:100)
  - Visualizations (2 exterior renderings)
  - Detailed scale model (1:50)
- Week 12: *Easter Monday*
- Week 13: Lecture: Case studies  
Project consultation: Design of structure (site plan 1:500, floor plans 1:100, sections 1:100, model 1:200)

Week 14: Lecture: Presentation tools  
Project consultation: Final design (site plan 1:500, floor plans 1:100, sections 1:100, main section 1:20, elevations 1:100, model 1:200)

Week 15: **PRESENTATION 04 (50 points)**

Required contain presented with printed posters:

- Analyzing figures
- Structural schema drawings
- Site plan (1:200)
- Floor plans (1:100)
- Sections (1:100)
- Elevations (1:100)
- Visualizations (4 exterior renderings, 2 interior renderings)
- Model (1:500)
- Model with environment (1:200)
- Detailed scale model (1:50)

**POINTS FOR ATTENDING THE CLASSES (10 points)**

Week 16: Review of unaccepted projects (without verbal presentation) (max. 25 points)

**Annexes**

*download from the Neptun system*

**TASK DESCRIPTION**

**PROJECT SITE**

**PLANS OF EXISTING BUILDINGS**

Peter ZILAHÍ dr.  
responsible lecturer

Pécs, 04.02.2019