

B A S I C S O F A R C H I T E C T U R E
M O D U L E ' B ' a s i n b u i l d i n g

Copies of the approved Course Syllabus are located at:
www.pmmik.pte.hu

Catalog information:

ECTS credits: 3
course number: PMRTENE009A
prerequisites: -
allotment of hours per week: 2 L, 0 P

Instructor:

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General Course Description:¹

Brief Syllabus: Through the introduction of common problems related to the design of buildings and the architectural environment, Basics of Architecture aims to help students approach the essence and inner structure of a building. Through examples of national and international contemporary architecture, students study the methodology of the design process as well as those important factors which determine the location, geometry, etc. of the future building. Students must be able to interpret certain architectural solutions and situations.

In the framework of getting prepared for design, students study operating buildings with similar functions and examples published in professional literature. On this basis they finalize their design project. In addition to their final drawing plans, they hand in their assignments at the end of the semester. Also assessed are the preliminary studies, the evaluation of different alternatives and the technical description of the concept together with the necessary sketches. The buildings are modelled as well.

In their semester assignment, students present the problems arising from mass and space formation of buildings in relation with functionality. During the practical sessions they prepare models of their own small scale designs and are taught techniques and tools of representation (drawing tools, methods and tools for modelling).

This subject includes a small scaled architectural design project where students can practice and further develop the content of the lectures and the essentials of other modules.

Methods:

1. planning design, planning methods in small scaled building design
2. analyzing examples of architecture history, contemporary architecture
3. sustainability on field of building design – analyzing the geographical and climatic aspects
4. project-developing in practical way, continuous communications

Learning Objectives:

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

1. **analyze** the theoretical framework of exercises
2. **solve** basic design issues
3. **sketch** their own design ideas
4. **employ** their individual creativity
5. **design** a small scale or temporary building in an architecturally creative style

¹ az akkreditációs anyag rövidleírása

Process:

In lectures we will examine a small number of relevant examples primarily through images or site visits. The basis for building design methodology will be achieved via knowledge about architectural history and precedent of type. The course pattern analyzes important examples of International and Hungarian buildings regarding architectural space, architectural form, the use of materials and structures, in relationship to various environmental factors. Lectures will provide the general theoretical framework of future exercises, in which the practice how to draw lines, surfaces, volumes, mass, spatial composition in appropriate proportion and scale will be learned. Exercises will engage physical objects as they exist in our perception and design process as it culminates in our imagination. Students will develop skills in building and the comprehension/handling of space through drawing and modeling. Class time will be spent primarily working in one-on-one consultations and in small groups to help perfect architectural skills.

Students will model a virtual architectural space that originates from a 4'×4' cube through addition, subtraction, or abstraction. In additive constructions, forms appear to have been glued together from individual pieces. Subtractive forms appear to have been carved or cut from a previously whole form like a cube, etc. The result has to be remodeled by students through drawings and a portfolio using design and graphic techniques of their choice.

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.

Required Reading and Other Materials will be equivalent to:

Required Reading:

FREDERICK, Matthew (2007): *101 THINGS I LEARNED IN ARCHITECTURE SCHOOL* The MIT Press;
3rd Edition ISBN 978 0262062664

Other Materials:

1. EDWARDS, Brian (2008): *Understanding Architecture Through Drawing*, Taylor & Francis ISBN 978-0415444149
2. NEUFERT, Ernst – NEUFERT Peter (2000). *Architect's Data*, Wiley, ISBN: 9780632037766
3. CERVER, Francisco Asensio : *The World of Contemporary Architecture* , ISBN 3829035640
4. PEVSNER, Nikolaus : *An Outline of European Architecture: ISBN 978-1423604938*
5. PHILIP JODIDIO : *Architecture Now! 1-8* : Publisher : Taschen

Schedule:

- I. Definition of Architecture
 - A. Main terms of design
- II. Harmony in architecture:
 - A. Correlation of location, era, and-man – an overview of the history of architecture
 - B. Analysis of scale, proportion, contrast and rhythm
 - C. Architectural shapes and compositions
- III. Design approaches
 - A. Primary elements of design (point elements, linear elements, planar and

- volumetric elements)
 - B. Primary shapes, regular and irregular forms
 - C. Transformation of form
 - D. Surface articulation
 - E. Form follows function
- IV. Exploring the space
- A. Space defining elements, Light, View
 - B. Spatial relationships (interlocking, adjacent, linked spaces)
 - C. Spatial organizations (centralized, linear, radial, clustered, grid)
 - D. Movement through space (approach, entrance, path)
- V. Presentation of ideas
- A. Sketching, Modeling, Visualization

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
	Outstanding work	High quality work	Satisfactory work	Less than satisfactory work	Unsatisfactory work

Students with special needs:

Students with special physical needs and requesting classroom accommodation must first register with the Dean of Students Office, all application to provide an equal learning environment for all will be guaranteed.