

DESCRIPTION AND SYLLABUS

Name of the subject in Hungarian:	Studies in Material Structures 1.
Name of the subject in English:	Studies in Material Structures I.
Credit value of the subject:	4
The code of the subject in the electronic study system:	BN-STMAT1-04-GY
Classification of the subject:	Obligatory
Language of instruction (in case of non-Hungarian courses):	English
Institute or department responsible for the subject:	-
Course type and number of contact hours:	Practical, class per week: 4, class per semester: 0
Mode of study: (Full-time / Part-time):	Full-time training
The semester in which the subject is open for registration:	2022/2023 1st semester
Prerequisite(s):	-

THE PURPOSE OF THE SUBJECT, LEARNING OUTCOMES:

The course introduces the main and some additional materials the built environment we perceive is made of. From the creation procedure to actual use of materials, from theory to practice the subject aims Students to develop a solid knowledge in materials and structures in a creative way by completing collaborative and open-source tasks and combining lexical knowledge with physical experiments.

SUMMARY OF THE CONTENT OF THE SUBJECT

The task consists of two main parts. First, choose an element of architecture and make a complex research of its key aspects such as historical presence, technological development, function and appearance based on the lexical knowledge acquired at the site visit and on the individual in-depth research. It shall be concluded in an essay of 4000 characters. Second, based on the first more theoretical research recreate that information abstracted in models in the scale of 1:20 and 1:5 and in digital collages as well. Experiment with materials and digital tools for further understanding.

STUDENT'S TASKS AND PLANNED LEARNING ACTIVITIES:

All students must complete both subtasks to finish the course. The research work task develops the ability to sort out relevant data from the collected information, and writing the mandatory essay develops the ability to formulate conclusions and express thoughts well. The second mockup maker, collage and digital art subtask develops creativity, sense of proportion dexterity and self-expression. Working with different materials gives knowledge about their different properties.

EVALUATION OF THE SUBJECT:

Attendance rate of no more than 3 absents. Accomplishing the requested weekly tasks with no missing materials from the requested compulsory contents. Contents needs to be professionally impeccable, clear and understandable concluded in a complex presentation. Attendance rate, activity at weekly consultations, level of PREVIEW complexity, professional approach, unique way of professional thinking, level of understanding architectural development, visual quality and consistency of presentation, relevancy of project-related dialogue. The course ends the 10th occasion.

In according to complete the class all students must do the following:

- attendance rate of no more than 3 absents
- essay written in at least of 3-4000 characters with spaces on the given topic and chosen element of architecture
- do at least 3-4 artworks including the "essence" of the element chosen, what represents

one of its main attribute based on the research for the essay
- the artworks must be abstracted

Method of course evaluation in case of practical subject:

– Presentation
and

– Tasks to be submitted by the deadline

Conditions for completing the course, evaluation criteria in case of a practical subject:
Ticketing is conditional on regular class attendance and the completion of extracurricular activities.

For the classification, a presentation containing the half-yearly portfolio is required.

Criteria for classification:

- hourly activity, presence, consultation
- thoughtfulness, quality and validity of the created works and plans
- independent work, invention
- the content of the presentation, the documentation and the quality of the presentation
- completion of tasks on time

Points of interest:

91-100%: excellent

76-90%: good

61-75%: satisfactory

51-65%: pass

0-50%: fail

Components of the half-year grade (with optional sub-items, individually identifiable percentages):

1. Professional, practical knowledge (20%)

Using tools

Use of software

Workflow planning

2. Theoretical knowledge (30%)

Research

Lexical knowledge

Problem raising

Conclusions

3. Creative skills (30%)

Individual creativity

Innovative thinking

Vocation

4. Soft skills (20%)

Cooperation

Contributing skills

Flexibility

Communication

Presentation

Communication during workflows

Self-assessment

The evaluation is based on the completed work and the documentation and oral report presenting it on unpacking.

The student receives a grade and an oral assessment, and self-reflection exercises take place during the semester.

OBLIGATORY READING LIST:

- *Constructing architecture : materials, processes, structures : a handbook.* , 2018
- https://www.taschen.com/pages/en/catalogue/architecture/all/04634/facts.rem_koolhaas_elements_of_architecture
- <https://mitpress.mit.edu/9780262120043/the-image-of-the-city/>