Budapest University of Technology and Economics
Faculty of Architecture Engineering
Department of Building Constructions
Central Building K.240.

BMEEPESA602 semester project

1./ SUBJECT AND INTENTION OF THE PROJECT

Design the loadbearing framework and complementary constructions of the given large span (hall) building and prepare its working drawings and elevation drawings accordingly.

In the process of project:

- apply the indication rules and regulations of the working project, and the specific rules for structural details and drawings when appropriate,
- learn the techniques for designing the constructional details of hall buildings.

2./ TASK

2.1 WORKING DRAWINGS OF HALL FRAMEWORK

Plan the main loadbearing constructions of the given hall building. Prepare the drawings of the entire building.

To be handed in:

- **Architectural plans of the building** 1 : 200
  - architectural layout (floorplan) of the building (or as much of it as fits an **A/2 paper**)
  - One elevation of the building, with the supporting loadbearing structure (frame) indicated behind it (with legend !) 1:200
- **Structural plans of the building** 1 : 200(250)
  - structural floorplan) of the building, indicating both the horizontal and vertical loadbearing constructions, **the bracing system**, the stairs, etc. the **loadbearing elements must be named**
  - **2 sections** of the building (a cross and a longitudinal section), through the openings

Deadline: 06. 04. 2020.
Delayed submission: 13. 04. 2020.

2.2 WORKING DRAWINGS OF THE BUILDING ENVELOPE

Prepare the working drawings of one selected part of the building (to be determined in consultation with the tutor).

To be handed in:

- **Architectural layout (floorplan) of the building,** with the indication of the constructions of the structural project with dashed lines — 1 : 50
- **2 sections** (complete, architectural) **of the building** a cross and a longitudinal section, through the openings — 1 : 50
- **At least 6 characteristic details** indicating all the different layers, elements, the loadbearing structures, with all the necessary measurements. The type of the details is to be determined in conultation with the tutor. — 1 : 5 (10)
- **Specifications**
  a written (typed) description about the main structural solutions of the building (eg. loadbearing structure, elevation construction, roofs, floors, fenestration, etc.). At least 5 pages (A/4).

Deadline: 18. 05. 2020. (12 h)
Delayed submission: 29. 05. 2020. (12 h)

3. GENERAL NOTES AND REQUIREMENTS:

The project has to be handed in on drawing paper **A/2 (420/597 mm**), the **details have to be prepared with ink or pencil** (drafting with a **CAD program is not acceptable**). The task should be handed in with an A/2 folder (an A/1 paper folded in two), with the title of the project, the name, the date, consultant, etc. on it.

For the completion of the individual task (parts 1 and 2) at least 2 registered consultation is required! Please print the Task Sheet from the website and bring it with you for the consultations. The tutor will give a signature for each consultation session onto the drafting sheets of the student, and these sheets will have to be handed in together with the project.

The dates for the delayed submissions are the very lates times when a project can be submitted. In case of a delayed submission an extra process fee will be charged and 20% of the points will be deduced from the result. No later submission is possible, and the prohibit giving anyone any special dispensations! If you fail to hand in a project in time the semester won't be accepted.

Budapest, 29. 02. 2020.

Peter Handa
assistant

Dr. Zoltán Hunyadi
lecturer