The purpose of these tasks is to continue the design begun in the previous course (Complex design I.) and to reach the level of technical details characteristic of building construction plans.

TASKS TO BE SUBMITTED FOR MID-TERM EVALUATION

1. Constructional Concept Plan

1.1 Required technical content of architectural drawings: The architectural drawings for the mid-term presentation should already contain the building constructions that have been developed based on the 'Constructional proposals' of the Complex design I. submission. The level of elaboration should be appropriate for the scale of the drawings.

1.2. Building construction task: Concept plans for 3 constructional groups/subsystems that are vital for the feasability of the building. Each should contain a 1:50 layout of the specific subsystem and sketches of 2 details.

1.3. Technical description: Extended, updated version of the 'Technical description' from Complex design I. It should describe the chosen structural system, explain the choices of the three subsystem, present the proposed solutions and provide all the structural layer arrangements.

TASKS TO BE COMPLETED WITH FINAL SUBMISSION

2. Building Construction Plans

2.1 Required technical content of architectural drawings: The architectural drawings at this stage should contain the final building constructions with a level of elaboration appropriate for the scale.

2.2. Building construction plans: Construction plans of one chosen constructional subsystem (eg: facade, flat roof, etc.), containing:

- 2 sections and 1 structural view of the subsystem in a scale of 1:20 or 1:25
- 15 detail drawings in total, in a scale of 1:10 (or 1:5), with component names and dimensions
- plans for 1 specific component, in a scale of 1:10, with details in a scale of 1:2

The subsytems and components for which plans are developed in this subtask should reflect the unique problems and challanges of the designed building.

2.3. Technical specification: The structural layer arrangements should be updated and finalized. The structural system, the choice of structures for each subsytem, the specific functional or implementational characteristics of the details in point 2.2 should be described. The technical specification of the chosen subsystem should be incorporated, consisting of choice of materials and components, with their required performance for one section of the subsystem. Students must also document the building's compliance with building energy, hygrothermal, acoustic and fire safety requirements.

Requirements to format: Both the Concept and Construction Plans should be submitted in A3 format.

Budapest, 16th of October, 2019.

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