

Technical University of Budapest
Faculty of Architecture
Department of Mechanics and Structures

COMPLEX DESIGN II. (9th semester)
LOADBEARING STRUCTURES

The aim of the semester: detailed structural analysis of the part of the project appointed for elaboration during the semester

Precondition of the fulfilment: continuous (min. 2) consultations, the first one before the 7th week of the semester

1. Assigning loadbearing structural tasks

Conditions of acceptance: Assigning parts of the architectural project to be worked out in the 9th semester

- The part of the building to be elaborated should be appointed in agreement with the consultant of architecture.

2. Content of the semester project

- corrections of structural sketches made during the previous semester, carrying over eventual changes
- static and design calculations of appointed parts of the structure, including the necessary structural elements. (In more complex cases when using computer programs for static and design calculations they should be checked by approximate manual calculations accepted by the consultant.)
- justification of the adopted structural dimensions by approximate calculations
- completion and revision if needed of the technical description made in the previous semester
- working drawings of the assigned parts of the loadbearing structure (details of joints, sketches of the reinforcement, structural connections)

Budapest, 2011

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