

**Course name: Building Construction III.**

Course code: YARÉSZ3BNF

Hours per week: 2 lecture / 2 practice / 0 laboratory; E: exam / 7 credits

Department of Construction Technology and Management

In charge: Dr. Vizi Gergely Norbert PhD

For students of BSc in Architecture

Pre-requirements for Erasmus students: 2 semesters Building Construction

**OBJECTIVE OF THE COURSE:**

- To get to a common knowledge on basic building structures and systems in Central Europe such as foundation-, wall-, slab, roof- and wall cladding structures.
- To learn the requirements and applicability of this structures and
- To get familiar with the required form and content of an execution plan with the help of the end term plan

**12-14 WEEKS SCHEDULE:**

1. Week: Introduction. Getting to know each other. DICTIONARY. Designing the layer order for wall, slab, floor, footing. Handing out Project work #1 (execution plan)
2. Week: Light weighted construction, wood and steel frame
3. Week: FOUNDATIONS, FOOTING, WALLS, LINTEL BEAMS. Design questions, External envelope impacts and requirements , Wall section S=1:20- sketch #1
4. Week: Student presentations: „Foundations, footings, walls, lintels in my home country”, Consultation, workshop
5. Week: ROOF STRUCTURES, HABITABLE ATTICS I., Roof structures 1:50 sketch #2
6. Week: ROOF STRUCTURES, HABITABLE ATTICS II., Consultation, workshop
7. ROOF STRUCTURES, HABITABLE ATTICS III., Habitable Attics 1:10 Chalkboard task #1
8. Week: ROOF STRUCTURES, HABITABLE ATTICS IV., 1st. TEST (wall structures and habitable attics)
9. Week: WALL CLADDING KITS I. Design questions, systems Substructure systems , Planar coordination of doors and windows, placement solutions in layered walls Chalkboard task #2 Handing out Project work #2 Consultation, workshop
10. Week: WALL CLADDING KITS II. Design questions, systems Substructure systems , Views and sections of walls with back-ventilated cladding, design rules - sketch #3
11. Week: WALL CLADDING KITS III. Design questions, systems Substructure systems , Detail design
12. Week: CURTAIN WALL STRUCTURES Design questions, systems , 2nd. TEST (Wall claddings, window and door constuctions)
13. Week: Review, conclusion. Corrective test, Handing in the Project works (End Term Plan) Evaluation

Assessment:

Midterm assignment, tests and exam

