

SHORT RENOVATION COURSE PROGRAMME

The title of the workshop is: „A short renovation course“ and it is divided into two parts:

1. virtual part, 27 – 28.09.2023, Zoom
2. physical on-site activity, 02 – 06.10.2023, Tallinn

All students need computers to work!

10 (max 12) students from each country, in total 30, it means 5 groups (each group has 2 students from each university, in total 6 students)

The student's assignment is to survey an existing building and propose a renovation solution for it. Each group will get one topic to solve in the physical part of the programme. Assignments will be prepared for all topics before the virtual part. The topics are:

1. building physics;
2. basics of heating and ventilation and energy efficiency;
3. cost estimation;
4. reinforced concrete research (TTK has all the necessary equipment)
5. Revit model and detailing joint types for renovation solutions (e.g. foundation to exterior wall to floor; exterior wall to ceiling; roof to ceiling, exterior wall to window and door, ect).

Credits given: 3 ECTS

VIRTUAL PART in Zoom, 27 – 28.09.2023

- Zoom link: TBA
- For the virtual part all students from each country will gather together in one room to work efficiently. After each lecture, students will be divided into international groups, to discuss the topic and make a short presentation.
- After each lecture, students will be divided into to 5 international groups to discuss about the topic. During that, all student groups will make mindmap in Miro environment. One of the groups is persenting their ides during 5 minutes. After that there is 10 minutes for discussion (eg other groups can add someting).
- Mindmap in Miro

DAY 1, Wednesday, 27th of September, room in Estonia A212

13:00	introduction to this BIP project
13:30	introduction of the building, assignment explanation
14:00	lecture - how and what to survey during the visit
14:30	lecture - building physics
15:00	15 min discussion (breakout rooms in Zoom, mindmap Miro), 5 min presentation for one group, 10 min for questions
15:30	break
15:45	lecture - basics of heating and ventilation and energy efficiency
16:15	15 min discussion (breakout rooms in Zoom, mindmap Miro), 5 min presentation for one group, 10 min for questions
16:45	conclusion of the day
17:00	end of the workday

DAY 2, Thursday, 28th of September, room in Estonia A212

13:00	lecture - cost estimation
13:30	15 min discussion (breakout rooms in Zoom, mindmap Miro), 5 min presentation for one group, 10 min for questions
14:00	break
14:15	lecture - reinforced concrete research
14:30	15 min discussion (breakout rooms in Zoom, mindmap Miro), 5 min presentation for one group, 10 min for questions
15:00	break
15:15	lecture - revit model and detailing joint types
15:45	15 min discussion (breakout rooms in Zoom, mindmap Miro), 5 min presentation for one group, 10 min for questions
16:15	conclusion of the day
16:30	end of the workday

SHORT RENOVATION COURSE PROGRAMME IN TALLINN, 02 – 06.10.2023**Programme Monday, 2nd of October, room B306, B306A**

9:00	Welcome to TTK
9:30	getting to know each other, making groups, assignment explanation
12:30	lunch
13:30	site visit
15:00	back to university, discussion using activity exercises
17:00	end of the day
18:00	evening activity for students (billiard or similar)
	evening activity for lecturers (dinner)

Tuesday, 3rd of October, room B306, B306A

9:00	groupwork
12:30	lunch
13:00	visiting TTK's laboratories
14:30	groupwork
17:00	end of the workday

Wednesday, 4th of October, room B306, B306A

9:00	pitch of work that has been done by that time, feedback
12:30	lunch
13:30	visiting a wood factory, Timbeco
17:00	end of the workday

Thursday, 5th of October, room B306, B306A

9:00	groupwork
12:30	lunch
13:00	visiting BIM cave
14:00	groupwork
17:00	end of the workday
18:00	evening activity (Seaplane Harbour or similar)

Friday, 6th of October , room B306, B306A

9:00	groupwork - finishing reports and PowerPoint presentations
12:30	lunch
13:30	presentations (20 min/group + 10min discussion), feedback, getting diplomas
17:00	end of the course, free time, going home.