



## WORKSHOP 3 - ASSIGNMENT

### ELABORATION OF A BUILDING SITE MANAGEMENT CONCEPT

#### Task 1 formulation:

The students continue to work on the projects from the intensive courses in Vienna and Cracow and develop rough building site management concepts for the buildings. The goal of the assignment is to adapt the plans considering different parameters such as costs, logistics, transportation, dimensions, and prefabrication. At the end of the workshop, students should be able to estimate the advantages and disadvantages of different structural systems and building components, understand the consequences of changes, and make informed decisions.

#### Submission:

Students are required to submit a **report** covering the following topics and including the effects of selected variants in terms of advantages and disadvantages:

1. Construction Process: Students should outline the level of prefabrication, modularity, and dimensions of building components during transportation, joining technology, and digital processes. They should also select production companies based on sustainable aspects.
2. Logistics: This section should cover transport, montage, timeline, management of relevant disciplines, and management of the building site.
3. Assembly sequence (visualization): Students should provide a visualization of the chronological order of the assembly sequence from the foundation to the roof.
4. Rough cost estimation
5. Sustainability concept: This section should cover the temporary approach, combinability, recyclability, and deconstructability (dismantling) of the building.
6. Lessons learned: In this section, students should reflect on what they have learned about all phases of the workshop. They should also highlight the problems they encountered and how they were resolved.

The report should be well-structured and clearly written, with each section addressing the relevant topic. Students should provide evidence to support their arguments and include references where necessary. The report should be submitted on the last day of the workshop and meet the required formatting and citation standards.

**Type of assessment:** Group work (international teams, group of 5 students)

**Prerequisite:** Course 2

**Learning materials:** Course 3 and 4

**Number of hours:** 30h

**Learning Outcome:** Tangible understanding of the process of erecting a building; ability to elaborate a rough building site management concept.



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## **BUILDING A PHYSICAL MODEL**

### **Task 2 formulation:**

Students are expected to select one of the projects and construct a **physical model** in 1:20 scale, representing all storeys of the building, from the foundation to the roof, including the individual layers of the building elements. The model should be capable of being disassembled into individual components, visualizing the chronological order of erection, building element dimensions by the transportation, prefabrication level, assembly process, and dismantling concept.

**Type of assessment:** Group work (international teams, group of 5 students)

**Prerequisite:** Course 2

**Learning materials:** Course 3 and 4

**Number of hours:** 20h

**Learning Outcome:** Tangible understanding of the construction of timber building and its components; and of the assembly chronology

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