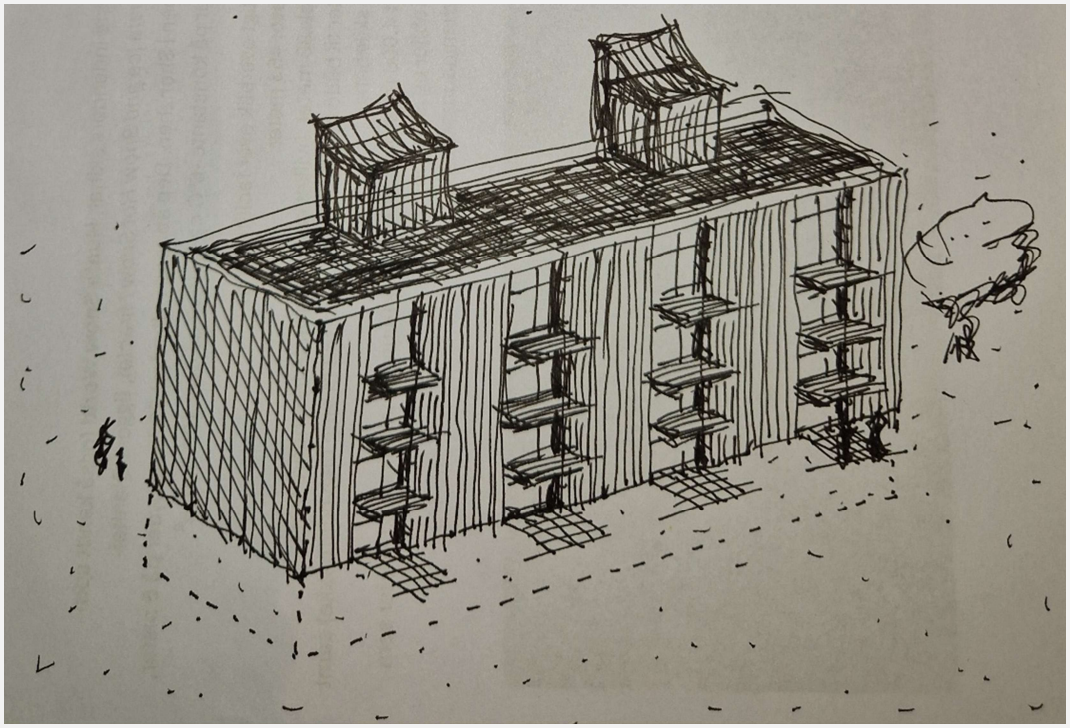
5.02 Revit Assignment – Advanced Level 3

VIA University College
Campus Horsens



AUTODESK Revit

Introduction to assignment 5.02 – A01

5.02 Revit Assignment – Advanced Level 3

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Assignment 5.02-A01

- Full fill the CASE scenario as described under “CASE”.
- The work is an **individual assignment**, with **many subtasks**.
- **Deadline** according to the **Teaching Plan**.



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Assignment 5.02-A01

1. **Make the model according to the "CASE"** so that the walls and roof correspond to the prefabricated elements you have chosen in the group. Maybe watch the video about ***Properties***.
2. Create **floor plans** for ground floor, 2nd floor and 4th floor, by placing the views **on sheets**.
3. Make **sections/section details** that correctly show the construction of all layers in the individual building components (roof, external walls 4th floor and external walls 1st to 3th floors). Place the views **on sheets**.
4. Make **3D views** showing the building. Place the views **on sheets**.
5. **Take off quantities** from the model. Maybe watch the video about ***Quantity take off***.
6. Put the extracted quantities in an **excel spread sheet** with tabs for each quantity. Maybe watch the video about ***Quantity take off.***
7. Make a **section and** two **plans** (3th. And 4th floors) **showing the different prefabricated elements**, by using filters. Maybe watch the video about ***Filters***.

Two uploads!

Power point with all parts of your work on the assignment

- Sheets with plans, sections and 3D views.
- Excamples of your Quantity take off.
- Sheets with the plans and section showing different prefabricated elements.

Excel spread sheet with extraction from the Revit model.

- With tabs for each quantity/building components.

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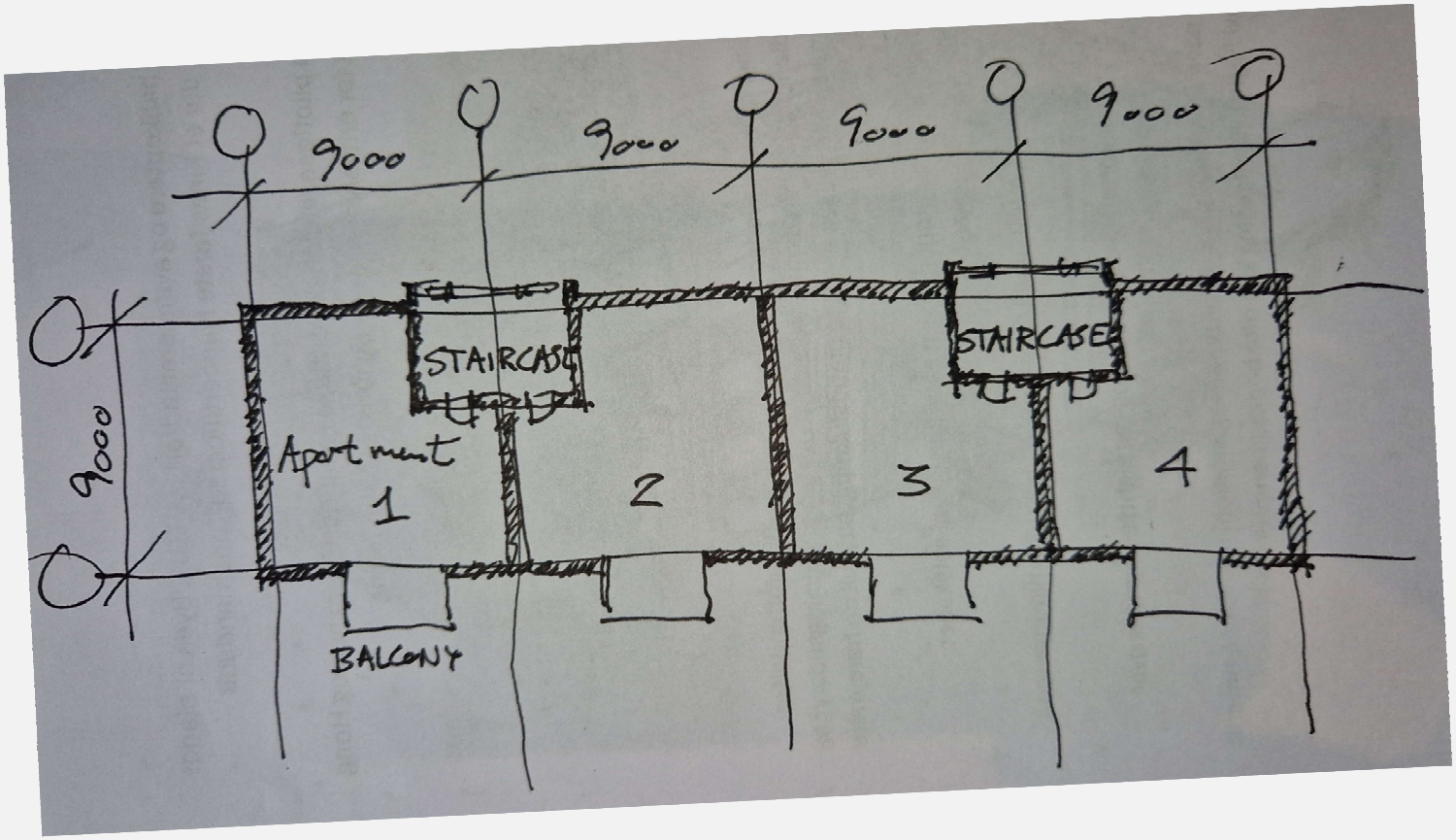
The Case

- The manager of the architectural firm you are employed by has made a quick sketch of a new project with 16 public housing units in 4 storeys for a housing company.
- Now, the boss wants you to model the project in Revit to assess its feasibility.
- To determine feasibility, you need to lay out the apartments to include a living room, kitchen, bathroom, and two bedrooms, while also refining the design - or potentially altering it entirely.
- The ceiling height must be at least 2.5 meters, and the floor assembly - comprising load-bearing floor elements and ventilation - will have a total thickness of between 0.8 and 1 meter.
- Building must be build from pre-fabricated elements.
- The building must also include a basement; however, you do not need to detail the interior layout—only the load-bearing partition walls need to be drawn.

5.02 Revit Assignment – Advanced Level 3

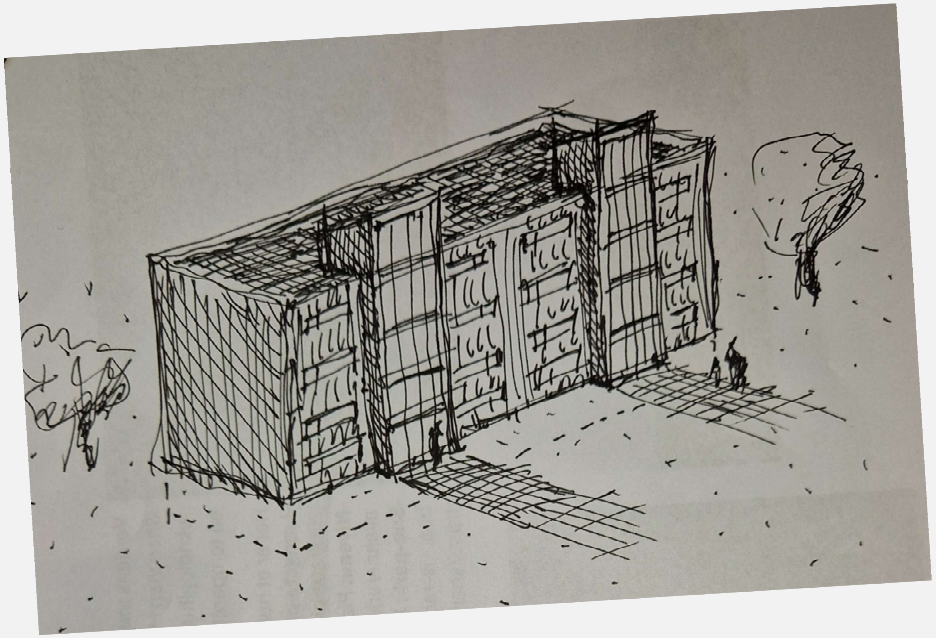
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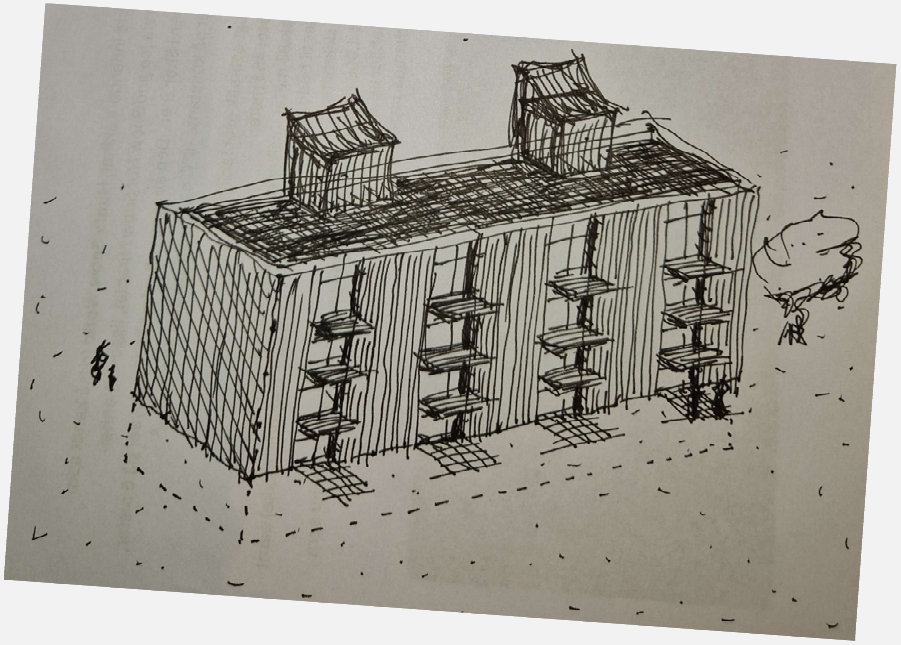
Plan



Bird's-eye views

Possible design





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We will give a short introduction/recap to Revit now.

And you can watch the videos on the TCU/VIA website.

