

Teachers:

João Pedro Costa (coord.), Alessia Allegri, Carlos Ferreira, Carlos Macedo, Filipa Serpa, João Figueira, Jorge Mealha, José Nuno Beirão, Madalena Cunha Matos, Margarida Louro, Caio Castro, Gil Abre

EXERCISE I SYLLABUS

COLECTIVE HOUSING EXAMPLES [ANALYSIS]

GOALS

The first exercise of the sixth semester is intended to familiarize students with the theme of “collective housing”, starting from the critical analysis of built case studies.

As with the previous semester’s first exercise, it is intended – through the reflexion about collective housing case studies - to develop a critical view of architecture, promoting its understanding and perfecting the use of its tools. In this semester, the study focuses, mainly, on diverse scales of reading, from urban form to apartments, as seen on the given case studies.

Thus, a group work is proposed with the objective of addressing an actual example, observing it under a set of pre-established parameters.

PROGRAM

The exercise is based on the systematic analysis of case studies, considering different parts and relations. This method is established with the intent of developing a rational process of evaluation of an architectural object and its relationship with a context, understanding its compositional principles by using a process in reverse to that of architectural design.

The case study listing, which contains national and international examples, will be supplied by the class teacher. Regardless of the nature and location of the examples - those in Lisbon allow a direct contact with the built object while those abroad will call upon indirect information - the exercise will follow the same structure and respond to the same parameters of analysis. In this way, it will become an instrument of shared learning, understandable within the class, as well as between the different classes of the third year.

This analysis is to be organized in 3 themes:

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1. Urban relationship: the building and its context

This item should allow for the understanding of the building's integration in an urban tissue; its relationship with a major building structure (block/row/etc.), with public space urban elements (streets/squares/etc.) and plot structures.

Mandatory pieces: **1:5000** aerial image and **1:2000** city plan. Item 1.2 should be illustrated by an axonometric image ("bird eye" aerial images in www.bing.com/maps/, for example)

- 1.1 Urban Layout (on a wide area – 1:5000)
- 1.2. Integration of the building in a built unit and urban fabric;
- 1.3 Nature of exterior space (private, collective or public) and plot structure.

2. Building organization and composition

This item should allow the understanding of the building as an "organism", its different elements and components, the relationship of its basic units (apartments) and the elements of articulation/distribution. It should also allow for an understanding of its expression, aesthetical issues, architectural language, etc.

Mandatory pieces: building plans (standard floor and another one – ground, upper, etc.) and section, at **1:400** scale. Axonometric diagrams must be used to represent the housing unit's organization, general uses, circulation and volumetric composition. Photos should be used to illustrate materiality, facade composition and language.

Building organization:

- 1.1. General uses (housing, commerce, parking, etc.);
- 1.2. Vertical and horizontal circulation;
- 2.3. Housing unit aggregation (location, type, fit);
- 2.4. Structural elements and grid.

Building composition:

- 2.5 Volumetric composition;
- 2.6 Facade organization; language, elements and composition rhythms;
- 2.7 Colours and materials.

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3. Housing unit organization

This item should allow the understanding of a significant apartment, including spatial characteristics and atmospheric qualities. Mandatory pieces: housing unit's plans – scale 1:200.

- 1.3. Social, intimate and service spaces;
- 1.4. Circulations;
- 1.5. Relationships – interior / exterior / transition;
- 1.6. Domestic space quality sketches (3 max.).

Working methodology

The exercise is to be executed in groups of 6 students per case. There are two types of examples to work with: One set of examples in Lisbon, allowing for direct contact. This set of case studies covers a wide spectrum of buildings, since the reconstruction of Baixa Pombalina to the projects of late XX century. One set of examples including international recognized projects, paradigmatic of the second half of the 20th century collective housing production.

In order to establish an adequate comparison, all examples should be analysed considering [1] the mandatory pieces, presented in the same scale, duly remade (from published or original drawings); [2] explanatory diagrams corresponding to study and synthesis drawings, drawn by hand or with accuracy (including drawing over photos if necessary). The use of computers is not allowed during the process of analysis, nor in the production of final elements for presentation.

Presentation

The exercise must be submitted in 4 A3 landscape oriented panels (according to a defined matrix – see annex), identifying the example on top of the sheet (place, author and year) and including the names of the authors of the analysis. Mandatory pieces, in the proper scales, should be placed (preferably) in the left half of the panel. Each item of analysis should be clearly identified with the titles and the number of the category of the syllabus.

The dimension of the buildings may justify slight adjustments on the position of the mandatory drawings and / or analysis, as well as the use of other representation scales. These adjustments are to be validated with the teacher.

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Evaluation criteria

- a) The understanding of the example qualities, considering the established items and their contribution to the understanding of the building as a single entity;
- b) The capacity to communicate the qualities of each case study from the required elements;
- c) The ability to present the work orally, considering other case studies.

Calendar

Start: February 17th

End March 5th

Lisbon, February 12, 2021