

# Core Program Master-Thesis HS 2023: CANTONAL HOSPITAL (EOC) SOPRACENERI, BELLINZONA-GIUBIASCO TI

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## CANTONAL HOSPITAL (EOC) SOPRACENERI, BELLINZONA-GIUBIASCO TI

Competitions represent one of the core disciplines of architectural design. In preparation to professional challenges, we propose to simulate an on-going competition and elaborate a project with the special focus on a **critical understanding and measuring of sustainable growth. How much expansion is necessary, how much is enough?**

Students will elaborate a proposal within the framework of the international design competition for the **new Cantonal Hospital EOC Sopraceneri on the former military area in Bellinzona-Giubiasco, known as 'Saleggina'**.

Program: New-generation hospital, flexible and adaptative megastructure  
Site: Former military base on flat, alluvial land, overlooking the river park of the Ticino river  
Size: 95'000 m<sup>2</sup>, Phase I 2030  
75'000 m<sup>2</sup>, Phase II 2050  
33'000 m<sup>2</sup>, Reserve  
**203'000 m<sup>2</sup> Total**

The brief calls for a general concept of the potential maximum development of a hospital with 203'000 m<sup>2</sup>, subdivided into two phases, where the idea of **growth** is at the core. Due to constant evolution of medical care, epidemiology, technology and the growing demand for healthcare, the objective is the realisation of a **new-generation hospital facility** capable of coping with the demands of **future flexibility** that arise from continuous developments and transformations. In a

first phase - with a time horizon of 2030 - a hospital structure of approximately 95'000 m<sup>2</sup> is asked for, replacing the existing Regional Hospital of Bellinzona. In a second stage - with the horizon of 2050 – the structure is planned to develop and house other hospital functions of approximately 75'000 m<sup>2</sup>. Finally, a reserve of an additional 33'000 m<sup>2</sup> will allow for potential future developments. **The hospital complex will have to be able to expand in a structure that is already in operation and dialogue in a sustainable manner with the territory in which it is located.**

During research and design phase, students will be investigating questions such as:

- *How could architecture answer to predicted growth? What spatial characteristics could such infrastructures of the future have?*
- *What does the idea of expansion over time mean from a spatial, technical, structural and logistic perspective? How much is necessary or enough?*
- *Which structures could provide efficient, effective, adaptable, scalable and flexible solutions that can enable the constant need for development and adaptation of healthcare infrastructures?*
- *To what extent is the desired growth compatible with the direct and indirect built and socio-political context? What is the impact of large scale infrastructures on our territory?*

More about the ongoing competition:

<https://www.eoc.ch/comunicazione/Comunicati/2023/Saleggina.html#:~:text=Pubblicato%20da%20EOC%20il%20bando,dell%27attuale%20Ospedale%20San%20Giovanni.>

<https://competitions.espazium.ch/de/wettbewerbe/home/ospedale-regionale-del-sopraceneri-eoc-la-saleggina>

### **Description of preparation and elaboration phase in key-words:**

Preparation phase:

- analysis of the design brief, analysis of the geographic, social and cultural dimensions;
- research on the correlation between typological specificities of the program and structural principles;
- collection of case-studies of comparable objects;
- concept study: development of an organization and structural principle.

Elaboration phase:

- specific design according to the emerging topics from preparation phase.

### **Teaching format:**

The preparation phase aims at defining the design criteria for the elaboration phase. This phase consists of a research part, that can be done in the format of group work and a concept study part that will be done in form of individual work. Both phases will be assisted weekly in the form of collective or individual feedbacks and will be concluded with a review with Professor for Architecture and Design Christian Kerez and Professor for Structural Design Dr. Jacqueline Pauli.

### **Ratio of grading by cooperation partners for preparation and elaboration phase:**

The grade will be defined in accordance by both cooperation partners since the architectural and structural design are not conceived to be separable from one another.

### **Preparation phase:**

Percentage designer(s): 80%

Percentage non-designer: 20%

### **Elaboration phase:**

Percentage designer(s): 80%

Percentage non-designer: 20%