

# Course guide 210343 - CAEI - Building Architecture with Industrialized Structure

**Last modified:** 30/06/2025

**Unit in charge:** Barcelona School of Architecture

**Teaching unit:** 753 - TA - Department of Architectural Technology.

**Degree:** DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Optional subject).

Academic year: 2025 ECTS Credits: 3.0 Languages: Catalan, Spanish

#### **LECTURER**

#### **Coordinating lecturer:**

**Others:** Segon quadrimestre:

LAIA MARÍN SELLARÉS - 2SM PAULA MARTÍN GOÑI - 2SM ORIOL PONS VALLADARES - 2SM

## **TEACHING METHODOLOGY**

# **LEARNING OBJECTIVES OF THE SUBJECT**

Go to catalan or spanish version.

## **STUDY LOAD**

Туре	Hours	Percentage
Hours large group	30,0	40.00
Self study	45,0	60.00

Total learning time: 75 h

#### **CONTENTS**

## **Building architecture with insdustralized structures**

#### Description:

The materialization of architecture tends towards industrialized, prefabricated, automated construction solutions. These allow to minimize wet in situ works and replace them with emerging technologies that obtain greater precision and control, reduce associated emissions and waste generation, decrease occupational risks and deviations from cost and deadlines. This industrialization must be kept in mind from the beginning of the project, when it is necessary to define the structure, both the material - steel, concrete, wood...; and the structural typology - frames, portals, modules...

**Full-or-part-time:** 45h Theory classes: 20h Practical classes: 10h Self study: 15h

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# **GRADING SYSTEM**

# **BIBLIOGRAPHY**

#### Basic:

- Código Estructural. Ministerio de Fomento,
- Documento básico SE-M : seguridad estructural, madera. Madrid: Ministerio de Fomento,

## Complementary:

- Klanten, Robert. Prefab and modular : prefabricated houses and modular architecture. Berlin: Gestalten, 2024. ISBN 9783967041248.
- Wallance, David. The future of modular architecture. New york: Routledge Taylor & Francis Group, 2021. ISBN 9780367467227.

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