



Universidad  
de Navarra

*International Seminar (Gestión Del Proyecto Técnico) Estructuras*

*Teaching guide 2023-24*

## INTRODUCTION

### Description of the course:

This seminar will give, by working hand-to-hand with an international expert the basics of timber construction and an insight into future trends.

The course will take place in one week in June 2024, to be determined.

The students will take part in the **4th Forum Internacional Construcción con Madera**, which will take place in Pamplona in June 2023. The date will be coordinated with the event.

- **Degree:** Studies in Architecture
- **Module in the Degree Program:** Intensification in Technical Management
- **Year:** Third to fifth
- **Semester:** Spring (June 2023)
- **Lecture schedule:**
- **Number of credits:** 3 ECTS
- **Type of course:** Elective
- **Language:** English
- **Instructors:**
  - Jose Manuel Cabrero, course director (jcabrero@unav.edu)
- **Department:** Building Construction, Services and Structures

## COMPETENCIES

### BASIC COMPETENCES

**BC02** Students must know how to apply their knowledge professionally to their job or career and have the skills that usually demonstrated by writing and supporting their arguments, and problem-solving within their area of study.

**BC04** Students are able to convey information, ideas, problems and solutions to specialist and non-specialist audiences.

**BC05** Students have developed the learning skills necessary to undertake further studies with a high degree of autonomy.

### GENERAL COMPETENCES

**GC04** Understand the structural, construction and engineering design problems associated with building design as well as the techniques for solving them.

**GC07** Understand the relationships between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale.

### SPECIFIC COMPETENCES

**SC17** Ability to conceive, calculate, design, integrate into buildings and urban complexes, and execute building structures (T).



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**SC52** Adequate knowledge of ecology, sustainability and the principles of energy and environmental resource conservation

**SC67** Use of English, level B2, to a sufficient level for the scientific and academic terminology typically used in architecture.

## PROGRAM

The course briefly focuses on the following topics:

- Timber as a construction material
- Current trends of timber construction
- The future of timber construction

## EDUCATIONAL ACTIVITIES

The Seminar is given on an intensive week, finalizing with the Forum on Timber Construction and followed by the presentation of the students' assignments.

A typical day in the Seminar begins with a theoretical session, around 1 hour, covering general topics on timber construction, to be followed by the discussion with the different groups of their design developments.

EDUCATIONAL ACTIVITIES			
AF1	Attendance and participation in theoretical face-to-face classes	X	10 h.
AF2	Attendance and participation in practical face-to-face classes	X	12 h.
AF3	Carrying out directed work (individual and group)	X	47 h.
AF5	Participation in tutorials	X	1 h.



AF6	Study and personal work	X	5 h.
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## ASSESSMENT

### EVALUATION IN THE ORDINARY CALL

The students will be asked to pursue their own timber-based design for a particular assignment. It will be worked in teams. Such assignment will be 80% of the assigned grade.

ASSESSMENT SYSTEMS			
10-20%	Attendance and participation in lectures, practices and lectures	X	10%
40-80%	Individual and team practical work	X	80%
0-40%	Oral defense of the works	X	10%
0-50%	Exams (partial and final)	X	0%

### EVALUATION IN THE EXTRAORDINARY CALL

For those students who have actually attended the seminar but failed, the same assignment will have to be presented in the extraordinary call.

## HORARIOS DE ATENCIÓN

Prof. Jose M. Cabrero ([jcabrero@unav.es](mailto:jcabrero@unav.es))

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- Use the following link for a direct appointment: <https://calendly.com/jcabrero/strdesign>

## BIBLIOGRAPHY AND RESOURCES

- **Timber Construction Manual.** Herzog, Natterer, Winter [Localízalo en la Biblioteca](#)
- **Manual of multi-storey timber construction.** Hermann Kaufmann, Stefan Krötsch, Stefan Winter. [Localízalo en la Biblioteca](#)