Universidad de Navarra

International Seminar (Gestión Del Proyecto Técnico) Estructuras

Teaching guide 2026-27

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 over a single week, from Monday to Friday, somewhere around between the end of May and the beginning of June. If possible, the Seminar will be held simultaneously with the Fórum Internacional de Construcción con Madera, which the students will attend.

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

LEARNING OUTCOMES (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

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

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.

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)

- Office A112. School of Architecture

Universidad de Navarra

- 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