

Course guide

290622 - ESTRUCIII1 - Hyperstatic Structures

Last modified: 21/07/2025

Unit in charge: Vallès School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Compulsory subject).
Academic year: 2025 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: JOSEP PRATDESABA FARGAS
Others: ALBERT NOYA MARTÍNEZ
JOSEP PRATDESABA FARGAS

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

ET6G. The ability to conceive, calculate, design and erect building structures and integrate them into existing buildings and urban areas (T).

ET13G. Adequate knowledge of solid, continuum and soil mechanics and the plastic, elastic and strength behaviour of heavy building materials.

Generical:

CE8. An understanding of structural, construction and engineering design problems related to building design.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

Resistant Structures: Structural analysis of hyperesthetic porticos. Pre-dimensioning of stresses.

STUDY LOAD

Type	Hours	Percentage
Hours large group	16,5	22.00
Hours medium group	16,5	22.00
Self study	42,0	56.00

Total learning time: 75 h

CONTENTS

Syllabus

Description:

Structural analysis of hyperstatic porticoes

Full-or-part-time: 33h

Theory classes: 16h 30m

Practical classes: 16h 30m

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Jiménez Montoya, P. Hormigón armado. 14a ed. Barcelona: Gustavo Gili, 2000. ISBN 842521825X.
- Margarit, Joan, 1938-. Cálculo matricial de estructuras de barras. Barcelona: Blume, 1970.