

COURSE DETAIL

REINFORCED AND PRE-STRESSED CONCRETE STRUCTURES

Country

Spain

Host Institution

University of Alicante

Program(s)

University of Alicante

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering Civil Engineering Architecture

UCEAP Course Number

121

UCEAP Course Suffix**UCEAP Official Title**

REINFORCED AND PRE-STRESSED CONCRETE STRUCTURES

UCEAP Transcript Title

CONCRETE STRUCTURES

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course examines the technological properties and behavior models of concrete, steel rebars and steel tendons, both individually and globally, to resist mechanical and chemical actions. Students learn to understand and apply the European standard (EUROCODE 2, EN-1992) for the design and construction of reinforced and prestressed concrete structures. Additional topics include the different structural analysis methods for concrete structures according to European standard, competence in the project, design construction and maintenance of reinforced concrete structures of moderate complexity, and the behavior and design of statically determinate prestressed concrete members with pre-tensioned tendons, and of the materials and construction systems involved. This course requires students to have prerequisites and background knowledge.

Language(s) of Instruction

Host Institution Course Number

33521

Host Institution Course Title

ESTRUCTURAS DE HORMIGÓN ARMADO Y PRETENSADO

Host Institution Course Details

<https://cvnet.cpd.ua.es/Guia-Docente/GuiaDocente/Index?wcodasi=33521&wlengua=en...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Degree in Civil Engineering

Host Institution Department

Civil Engineering

Course Last Reviewed

2025-2026

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