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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