

29741 - Concrete Structures

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	434 - Bachelor's Degree in Mechanical Engineering
ECTS	6.0
Course	4
Period	Second semester
Subject Type	Optional
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

5.2.Learning activities

5.3.Program

1. Introduction to reinforced concrete
2. Components of concrete
3. Properties of concrete
4. Basis for calculation. Structural safety
5. Ultimate limit states under axial forces and bending moments

29741 - Concrete Structures

6. Instability due to compression
7. Ultimate limit states under shear forces and torsional moments
8. Detailing of reinforcement
9. Serviceability limit states
10. Retaining wall
11. Structural walls
12. Concrete plates and slabs
13. Concrete shells

5.4.Planning and scheduling

5.5.Bibliography and recommended resources