

30720 - Conditioning and Services 1

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	470 - Bachelor's Degree in Architecture Studies
ECTS	6.0
Course	3
Period	First semester
Subject Type	Compulsory
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

The learning process designed for this course is based on the following:

The course consists of a theoretical and case studies part in which knowledge about passive environmental conditioning is introduced, including acoustic conditioning, climate control, and natural lighting .

30720 - Conditioning and Services 1

In parallel, practical activities are devoted to the analysis of a project previously designed by the students and its passive design improvement . The exercise is performed in groups of 3-4 students during the semester and are supervised during the course, thus allowing a continuous evaluation.

Complementarily on site works visits and practical exercises are done in class.

5.2.Learning activities

The program that students are offered to help them achieve the expected results includes

Total hours of student work: 150 hours (6 ECTS)

Theoretical credits : 75 hours (3 ECTS)

Practical credits : 75 hours (3 ECTS)

Classroom activities

1. Theoretical and problems resolution (large group) classes.
2. Practical classes (intermediate group).
 - Case study discussions.
 - Tutorial sessions.
3. Visits to on-site building constructions, buildings or conferences.
4. Scheduled tutoring.
5. Written test

Distance activities

6. Sytuding and individual work.
7. Performing tasks and projects individually and/or in small groups.

30720 - Conditioning and Services 1

5.3.Program

- Introduction: Definition of natural conditioning of buildings; Natural conditioning along the history of architecture; Implementation in place and comfort; Intrinsic characteristics of the project and comfort.
- Passive climate conditioning: Strategies for natural climate conditioning; Natural ventilation; Sun exposure; Climatic comfort.
- Natural lighting conditioning: Daylighting strategies and their integration into the project; Dimensioning natural lighting.
- Introduction to acoustic conditioning.

5.4.Planning and scheduling

Theoretical classes of 1 hour per week according to the School schedule.

Problems resolution classes of 2 hours every second week according to the School schedule.

Practical classes of 2 hours per week according to the to the School schedule.

The course assignments will have partial pre-delivery and final delivery dates that will be announced at the beginning of the course.

The date of the theoretical test will be included in the School exams calendar.

5.5.Bibliography and recomended resources