Universidad Zaragoza

**Year : 2019/20**

# 30717 - Computing

## Syllabus Information

**Academic Year:** 2019/20
**Subject:** 30717 - Computing
**Faculty / School:** 110 -

**Degree:** 470 - Bachelor's Degree in Architecture Studies

**ECTS:** 6.0
**Year:** 2
**Semester:** Second semester
**Subject Type:** Compulsory
**Module:** ---

# 1.General information

### 1.1.Aims of the course

### 1.2.Context and importance of this course in the degree

### 1.3.Recommendations to take this course

# 2.Learning goals

### 2.1.Competences

### 2.2.Learning goals

### 2.3.Importance of learning goals

# 3.Assessment (1st and 2nd call)

### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

# 4.Methodology, learning tasks, syllabus and resources

### 4.1.Methodological overview

The orientation of this subject is mainly practical. The proposed activities are focused on the learning based on the experience. The most suitable teaching strategies for relating and practices, the resolution of problems and the laboratory practice. However, these strategies are difficult to be performed without a fundamental basis that allows students to understand and learn outside classes.

### 4.2.Learning tasks

The programa offerted to students to help them to achieve the expected results is composed of the following activities:

- The subject program will be developed in the classroom.
- Problems with concept application and techniques explained in the program of the subject will be solved in special classes dedicated to those problems.
- Practical sessions will take place in computer labs. In such sessions students will develop practical work related to this subject.

### 4.3.Syllabus

The program is structured as follows:

- Information, Computer systems and Computer architecture
- Physical and logical structure of a computer: hardware and software
- Information representation, Programming and Algorithmics
- Computer graphics
- Architecture design art and Informatics
- Computer networks
- Computer security
- Exercises related to programming

## 4.4.Course planning and calendar

The calendar of the subject will be determined by the academic calendar of the corresponding course in each of the centers where this subject is taught. The face-to-face sessions will have an estimated duration of 60 hours distributed between lectures, resolution of problems, and laboratory practice. The timetables of all the class hours and practical sessions will be announced with enough time in advance through the website of the center and the web page of the subject.

## 4.5.Bibliography and recommended resources