

## 30251 - Information Systems II

### Syllabus Information

**Academic year:** 2023/24

**Subject:** 30251 - Information Systems II

**Faculty / School:** 110 - Escuela de Ingeniería y Arquitectura  
326 - Escuela Universitaria Politécnica de Teruel

**Degree:** 439 - Bachelor's Degree in Informatics Engineering  
443 - Bachelor's Degree in Informatics Engineering

**ECTS:** 6.0

**Year:** 3

**Semester:** Second semester

**Subject type:**

**Module:**

### 1. General information

The main objective of the subject is to foster a solid understanding of Information Systems in the context of an organization. At the end of the term, students will be able to assess, among other things, the importance of Information Systems for an organization, its benefits, its risks, the needs it responds to and the impact of technological innovation.

These approaches and objectives are aligned with the Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>) and with certain specific targets, so that the acquisition of the learning results will contribute to some extent to the achievement of target 8.2 Goal 8, and target 9.5 of Goal 9.

### 2. Learning results

- To know the importance of information management in organizations, the main types of information systems and the Information and some relevant real cases.
- Know the business and organizational environment well enough to know how to select the most appropriate technology for your needs.
- To understand the impact of computerization on the target organization, at all levels (technological, organizational, ethical, etc.).

### 3. Syllabus

The syllabus consists of two blocks:

#### **Part I: The Information Systems ecosystem.**

This part analyzes its importance in organizations, the technology involved and its life cycle as well as other aspects of information systems.

1. Importance of Information Systems in organizations.
2. Technology involved.
3. Information Systems Development.
4. Implications of an Information System.

#### **Part II: Types of Information Systems.**

This part presents the different types of Information Systems accompanied by real examples that the student will encounter in their professional life.

1. Enterprise Systems.
2. Decision Making.
3. Knowledge Management.

4. Other Information Systems.
5. New trends.

#### 4. Academic activities

At the School of Engineering and Architecture of Zaragoza:

- Lectures and problems. 45 hours.
- Laboratory practices. 12 hours.
- Subject work. 27 hours.
- Study. 60 hours.
- Assessment tests. 6 hours.

At the Polytechnic University School of Teruel:

- Lectures and problems. 30 hours.
- Laboratory practices. 30 hours.
- Subject work. 24 hours.
- Study. 60 hours.
- Assessment tests. 6 hours.

#### 5. Assessment system

**The student must demonstrate that they have achieved the intended learning results by means of the following continuous assessment activities**

- **Problem-based activities (30%).** Assessment of several activities on topics related to the Information Systems.
- **Project (45%).** A group project in which a real Information System of common use in companies will be implemented and operated.
- **Final open response written test (25%).**

There will be a **global assessment test** for the **ordinary call** for students who do not pass the subject by the methods indicated above. The overall test will consist of an open-ended written test.

The **second call**, to which all students who have not passed the subject will be entitled, will be carried out by means of a **global test**. The overall test will consist of an open-ended written test.