

Degree	Type	Year	Semester
2501232 Business and Information Technology	OT	4	0

## Contact

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## Use of languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

## Prerequisites

It would be advisable to follow also the course on networks offered in the degree (102169-Xarxes)

## Objectives and Contextualisation

Specific objectives:

- Analyse the situation of information security in organizations
- Understand the needs of information security in organizations and transmit them to the Management
- Understand the legal environment, international standards and regulations affecting information security
- Identify the impact of regulatory compliance relating to information security in organizations

Specific Skills

- Demonstrate skills in the overview of the security into the organization
- Demonstrate knowledge about the alignment of the organization's objectives with the information security objectives
- Identify the security status of the organisation from the management point of view
- Demonstrate knowledge of the course of action when information security risks are identified
- Demonstrate ability to communicate technical security topics to non-technical recipients, in both orally and in writing

Learning Outcomes

- Assess the state of information security in the organization, in line with the industry, the legal context, and the level of risk assumed by the Management
- Define the strategy of implementing a security management plan in the absence of this

- Provide students with technical and management skills to identify and, if apply, propose recommendations regarding technologies to be used, especially regarding the criteria to use cloud computing solutions.
- Write correctly and understandable documents and reports needed to comply with the rules and regulations applicable to the organization.

## **Content**

### **1. Information Security**

- What does Information Security mean?
- Importance of information security in corporate environments
- Risk assessment of information technology in corporate environments
- Information security related frameworks (ISO27001, SANS, CSA)

### **2. Technological environments**

- Networks Communications
- Cloud Computing technological environments
- Forensic analysis in corporate environments

### **3. Ciphering and Cryptography**

- Methods of enciphering
- Symmetric and asymmetric key systems
- Digital Signature

### **4. Compliance**

- Legal Environment (GDPR, LOPD, LSSI, electronic signature, ..)
- Standards and recognized bodies (ISO, ISACA)