

**Protection Systems**

Code: 104046  
ECTS Credits: 6

| Degree  | Type | Year | Semester |
|---|------|------|----------|
| 2502501 Prevention and Integral Safety and Security | OT   | 4    | 0        |

**Contact**

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**Use of Languages**

Principal working language: spanish (spa)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

**Teachers**

Fernando Fernández Núñez

**Prerequisites**

This subject does not have any pre-requirement

**Objectives and Contextualisation**

Consolidate and expand knowledge acquired, in previous years, in various subjects.

Bring them to the practical application level and prepare the student for immediate use of labor requirements.

We will deal with the applications of electronic security, such as physical, human and logical security, in the part corresponding to the patrimonial security manager; Covering all this with "business intelligence" and the issues related to "predatory" counter-marketing, industrial espionage, and crisis and contingency plans, and command boards.

The theoretical content will be reinforced and accompanied by practical exercises.

The students will help to shape the subject, depending on their concerns and manifest preferences.

**Competences**

- Apply the legal regulations governing the sector of prevention and integral security.
- Assume the social, ethical and professional responsibility that derives from professional practice.
- Be able to adapt to unexpected situations.
- Carry out analyses of preventative measures in the area of security.
- Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
- Identify, manage and resolve conflicts.
- Plan and coordinate the resources of the three large subsystems that interact in questions of security: people, technology and infrastructures.

- Respond to problems applying knowledge to practice.
- Use the capacity for analysis and synthesis to solve problems.
- Work in institutional and interprofessional networks.

## Learning Outcomes

1. Apply the rules of professional practice for private security and private research.
2. Assume the social, ethical and professional responsibility that derives from professional practice.
3. Be able to adapt to unexpected situations.
4. Diagnose the situation of integral security in companies and organisations.
5. Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
6. Identify, manage and resolve conflicts.
7. Plan and manage prevention and security in accordance with the prevailing legislation applicable in the sector.
8. Respond to problems applying knowledge to practice.
9. Undertake collaborative management of private security plans.
10. Use the capacity for analysis and synthesis to solve problems.
11. Work in institutional and interprofessional networks.

## Content

- Electronic protection systems - legal application by sectors
- Calendar of adaptation of protection measures in sectors of obligatory compliance and regulated
- Maintenance procedures
- Design and parameterization matrix
- Study false alarms and protocols acting CRA's
- Security equipment:
  - Centralization
  - Volumetric, punctual and perimeter detectors
  - Biometrics
  - Explosive Detection and parcel inspection
  - Barriers and control accesses
  - Vehicles
  - TVCC
  - Recorders
  - Content analysis - video intelligence
  - Anti-furt
  - IP
- Cards
  - Magnetic
  - Weigand
  - Bars
  - Hyper frequency
- The intelligence cycle
- Business intelligence
  - Against - industrial espionage and marketing "predatory"
- Signature and digital certificate
- Cryptography
  - Symmetric and asymmetric systems. The PGP
- Cyber attacks
- The crime for employees in the company
- Crisis and Contingency Procedures
- Procedures Control Accesses
  - Control panels
- Protection Systems with Armed or Non-Armed Vigilance

- Programming of services and quadrants
- Coordination and management
- Integration with systems
- Integrated security architecture
- Vigilance and monitoring
  - Research in electronic media: forensic computer research
  - Technology for Private Detectives: documenting facts by means of image and sound reproduction, communications, capture systems, editing and printing of images, video editing, text editing systems, etc.

## Methodology

The autonomous activities will correspond to both the personal study and the resolution of the exercises and works proposed by the teacher. Each student will have to do research on documentation of the subjects related to the subject matter of study and personal consolidation work about what has been presented in class (programmed readings, individual exercises). In addition you will have to follow up and study different exercises and practical cases.

The assessment activities will evaluate the knowledge and competences acquired by the students, in accordance with the criteria presented in the following section.

Tutorials with the teaching staff will be arranged by email

## Activities

| Title  | Hours | ECTS | Learning Outcomes                 |
|--|-------|------|-----------------------------------|
| Type: Directed   |       |      |                                   |
| Videoconference with the active participation of the students      | 6     | 0.24 | 3, 1, 2, 4, 8, 5, 9, 6, 7, 11, 10 |
| Type: Supervised   |       |      |                                   |
| RESOLUTION OF DOUBTS ON SUBJECT AND PRACTICES                      | 24    | 0.96 | 3, 1, 2, 4, 8, 5, 9, 6, 7, 11, 10 |
| Type: Autonomous   |       |      |                                   |
| Resolution of practical cases. Realization of works Personal study | 120   | 4.8  | 3, 1, 2, 4, 8, 5, 9, 6, 7, 11, 10 |

## Assessment

### 1- Periodic exercises

Throughout the course, work and exercises will be required, the delivery of these in the periods indicated for the final evaluation. The delivery of at least 2/3 of those proposed will be required to evaluate the subject. The non-presentation in time will evaluate how 0 (zero). These evaluable works can be proposed to solve directly on theoretical or practical classes day.

They will qualify from 0 to 10, will be average among all of them and will have a specific weight in the global of the subject of 30%.

### 2- Theoretical tests - individual practices

The specific weight of the exam(s) on average is 40% on the overall course.

### 3- Course work

The student will have to do a long-distance job that must be delivered no later than three weeks before the end of the course. The evaluation will be from 0 to 10. It will have a specific weight in the final mark of 30%

The course work is essential for the evaluation of the subject and must be obtained at least 5 out of 10. For students who do not pass this grade, having handed over a project that is evaluable in the expected dates, there will be a 15-day replacement period for the delivery of the corrections proposed by the teacher in the retro-valuation. In this case the maximum assessment of the work will be 5.

## EVALUATION

If you do not pass the subject in accordance with the aforementioned criteria (continuous assessment), you can do a recovery test on the scheduled date in the schedule, and that will cover all the contents of the program.

To participate in the recovery students must have been previously evaluated in a set of activities, the weight of which is equivalent to a minimum of two thirds of the total grade of the subject. However, the qualification that will appear on the student's file is of a maximum of 5-Approved.

Students who need to change an evaluation date must submit the request by filling in the document that will be found in the moodle "Tutoritzacio" space.

Without prejudice to other disciplinary measures deemed appropriate, and in accordance with the current academic regulations, "in the event that the student conducts any irregularity that may lead to a significant variation of the rating of an assessment act, this evaluation act will be evaluated with a 0, regardless of the disciplinary process that can be instructed. In the event that there are several irregularities in the evaluation acts of the same subject, the final grade of this subject will be 0".

Tests / exams may be written and / or oral at the discretion of the teaching staff.

## Assessment Activities

| Title  | Weighting | Hours | ECTS | Learning Outcomes                 |
|--|-----------|-------|------|-----------------------------------|
| Evaluation of the works requested, made and presented by the student   | 30%       | 0     | 0    | 3, 1, 2, 4, 8, 5, 9, 6, 7, 11, 10 |
| Theoretical tests and individual practices: Oral written tests that allow to assess the knowledge acquired by the student. | 40%       | 0     | 0    | 3, 1, 2, 4, 8, 5, 9, 6, 7, 11, 10 |
| Work of the course (long-haired) presentation, defense and continuous evaluation   | 30%       | 0     | 0    | 3, 1, 2, 4, 8, 5, 9, 6, 7, 11, 10 |

## Bibliography

Students will be given the manual prepared by Fernando Fernández Núñez, plus additional documentation for expansion and consultation.