Universitat Autònoma de Barcelona

2019/2020

Protection Systems

Code: 101873
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: catalan (cat)
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.
- Efficiently manage human resources.
- 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. Select the minimum resources for efficient risk management.
10. Undertake collaborative management of private security plans.
11. Use the capacity for analysis and synthesis to solve problems.
12. 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 theoretical classes in the classroom will combine the master classes, and the development and resolution of work exercises,

The practical classes in the classroom will consist of the development of exercises and works in which some of the concepts presented in the theoretical classes will be applied in practice. Subsequently a joint venture will be held from which the corresponding academic conclusions will be deferred.

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			
Theoretical and practical classes with the participation of students	44	1.76	3, 1, 2, 4, 8, 5, 10, 6, 7, 9, 12, 11
Type: Supervised			
Tutoring with students	12	0.48	3, 1, 2, 4, 8, 5, 10, 6, 7, 9, 12, 11
Type: Autonomous			
Resolution of practical cases. Realization of works. Personal study	94	3.76	3, 1, 2, 4, 8, 5, 10, 6, 7, 9, 12, 11

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

They will be done during the course 1 or 2 exams. Each one will have a theoretical part and a practical part. The possibility of making a 3 resolute exam is open, on the penultimate day of class depending on the course development. The specific weight of the exams 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 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 toa 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 or exams may be written or oral at the discretion of the teaching staff.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Course work- long distance and presentation and defense and continuous evaluation	30%	0	0	3, 1, 2, 4, 8, 5, 10, 6, 7, 9, 12, 11
Evaluation of the works requested, made and presented by the student	30%	0	0	3, 1, 2, 4, 8, 5, 10, 6, 7, 9, 12, 11
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, 10, 6, 7, 9, 12, 11

Bibliography

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