

Safety Technology

Code: 101867
ECTS Credits: 6

Degree	Type	Year	Semester
2502501 Prevention and Integral Safety and Security	OB	1	2

Contact

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Use of Languages

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

Other comments on languages

If international students are enrolled in the course, the language will be Spanish. Students can make their inquiries in writing in the following languages: Catalan, English, Spanish.

Prerequisites

This subject doesn't have any pre-requirerments.

Objectives and Contextualisation

Differentiate and define security systems, such as electronic, physical and human elements, in the latter with special attention to learning men and women with respect and equality without prejudice to gender, installed and deployed in a facility to protect people and property before the different risks that can affect them.

Knowing the regulatory framework that regulates security technologies, and their relationship with the sectors of public security and private security.

Know the different electronic security devices that are marketed, installed, and maintained for the design of comprehensive security plans.

On the other hand, to know the existing physical security systems and how they are combined with electronic security systems to minimize the different risks to which the installation we wish to protect may be exposed.

Competences

- Carry out analyses of preventative measures in the area of security.
- Have a general understanding of basic knowledge in the area of prevention and integral safety and security.
- Identify the resources necessary to respond to management needs for prevention and integral security.
- Know how to communicate and transmit ideas and result efficiently in a professional and non-expert environment, both orally and in writing.
- Make efficient use of ITC in the communication and transmission of results.

- 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 and learn autonomously.
- Work in institutional and interprofessional networks.

Learning Outcomes

1. Analyse specific risks and understand the prevention mechanisms.
2. Analyse the preventative interventions in matters of security, environment, quality and social corporate responsibility and identify the inherent risk factors.
3. Coordinate the resources of the three main subsystems of the prevention and integral security sector: people, technology and infrastructures.
4. Diagnose the situation of integral security in companies and organisations.
5. Draw up management proposals for prevention and security in an organisation.
6. Identify, develop or acquire and maintain the main resources necessary to respond to tactical and operational needs inherent in the prevention and security sector.
7. Know how to communicate and transmit ideas and result efficiently in a professional and non-expert environment, both orally and in writing.
8. Make efficient use of ITC in the communication and transmission of results.
9. Respond to problems applying knowledge to practice.
10. Take a preventative view in the area of security.
11. Use the capacity for analysis and synthesis to solve problems.
12. Work and learn autonomously.
13. Work in institutional and interprofessional networks.

Content

Basic normative framework of Security Technologies.

- Basic legislation.
 - Legislation Private security applicable to Security Technology.
 - Legislation Video surveillance. Legislation F.C.S.
- Physical security systems.
 - Perimetral
 - Foreign
 - Interiors
- Electronic security systems.
 - Access control. Intrusion.
 - Video surveillance.
 - CCTV.
- Fire protection system.
 - The detection.
 - The extinction.
 - The alert and the evacuation.
- History of weapons.
 - Knives.
 - Firearms.
 - Applicable technologies in conflicts.
- Weapons and Explosives.
 - Basic weapons regulation.

Affectation of weapons in security systems.
 Legislation on explosives.
 The safety of explosives.

- Shields Basic regulations Affectation of the shields in the security systems.
 Evolution of Security Technologies.
 Technosurveillance. Communication. Positioning Follow.
 Future of security technologies. Drones Robotics Cybersecurity
- The technology of security against the human factor. Balance or technification of security.

Methodology

- Theoretical classes.
 - The theoretical classes will consist of exposing the subjects of the subject (magisterial exhibition with audiovisual support or Power Poit), resolution of the exercises and resolution of doubts, as well as cooperative learning and the case method.
- Practical classes and resolution of practical cases.
 - The practical classes are destined to the accomplishment or resolution of the exercises, exhibition of works and presentations, individual or in group. They can also be used for the visualization of audiovisual materials.
- Reading and seminars:
 - The readings will be accompanied by audiovisual media.
 - The seminars will be based on the presentation of real cases and discussion of the technological and human resources deployed for the implementation of prevention and security plans.
- Debates and discussion forums.
- Oral presentation of work in the classroom.
- Completion of works / projects / reports.
- Study for the exam. Final test (one first part type test, and the second one case to be developed).

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Theoretical and practical classes with the participation of students	44	1.76	1, 10, 7, 3, 4, 9, 5, 2, 8, 6, 13, 12, 11
Type: Supervised			
Work planning Readings, reflection on the subjects. Preparation of individual works. PEC, and final test.	12	0.48	1, 10, 7, 3, 4, 9, 5, 2, 8, 6, 12, 11
Type: Autonomous			
Individual and group work (search for material, discussion, preparation and presentation).	94	3.76	1, 10, 7, 3, 4, 9, 5, 2, 8, 6, 13, 12, 11

Assessment

It will be based on the criteria based on the continuous evaluation, which makes the attendance mandatory and that will allow us to measure the degree of specific competences of the program that the student has achieved.

The values of each item for evaluation are listed in the table below, all the items must be exceeded with (5) so that they can be computed in the evaluation.

Written test

A written test will be carried out (short questions).

Final exam

A written test (type test and practical case) will be carried out.

Final Year Project.

The project will consist of designing a combined electronic security / security / private security system. The content of the work will be agreed with the teacher of the subject. The students will have to apply the knowledge acquired in the subject to carry out the security project.

In the defense sessions of the project the students will have 5 to 10 minutes to expose by means of a presentation in * PowerPoint (minimum 5 maximum 10 slides). At the end of each exhibition the teacher will ask questions to the students who defend the project.

The work will have an extension of 15 pages, and will be delivered in Word or PDF format along with the PowerPoint presentation.

The works must be cited in accordance with the corresponding regulations. No work will be accepted without a proper citation. https://ddd.uab.cat/pub/recdoc/2016/145881/citrefapa_a2016.pdf

If you do not pass the subject in accordance with the aforementioned criteria (continuous evaluation), you can do a recovery test on the scheduled date in the schedule, which 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 application by filling in the document that will be found in the EPSI Tutorials moodle.

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
Final Exam	50%	0	0	1, 10, 7, 3, 4, 9, 5, 2, 8, 6, 13, 12, 11
Final course work	30%	0	0	1, 10, 7, 3, 4, 9, 5, 2, 8, 6, 13, 12, 11
Practical exercise (type test and development)	20%	0	0	1, 10, 7, 3, 4, 9, 5, 2, 8, 6, 13, 12, 11

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