

Degree programme	Type	Course
Prevention and Integral Safety and Security	FB	2

Contact lecturer

Name : Laura Casas Diaz

Email : laura.casas@uab.cat

Teaching staff

Laura Casas Diaz

Group languages

You can consult this information at the [end](#) of the document.

Prerequisites

There are no prerequisites.

Objectives

- Know the basic computer concepts and the functioning of an information system that can affect the security of c
- Know the physical components of a computer system or computer and networks.
- Know the process of auditing information systems.
- Analyze the Government and the Management of Information Technologies.
- Study the fundamental aspects of Information Security Management.
- Analyze the main standards of Information Security.
- Know the fundamental concepts of Cybersecurity.
- Analyze the typologies of technological crime, electronic evidence and Forensic Readiness.

Learning outcomes

1. Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
2. Students must have and understand knowledge of an area of study built on the basis of general secondary education, and while it relies on some advanced textbooks it also includes some aspects coming from the forefront of its field of study.
3. Students must be capable of applying their knowledge to their work or vocation in a professional way and they should have building arguments and problem resolution skills within their area of study.
4. Students must be capable of collecting and interpreting relevant data (usually within their area of study)

- in order to make statements that reflect social, scientific or ethical relevant issues.
5. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
 6. Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
 7. Critically analyse the principles, values and procedures that govern professional practice.
 8. Know how to communicate and transmit ideas and result efficiently in a professional and non-expert environment, both orally and in writing.
 9. Make efficient use of ITC in the communication and transmission of results.
 10. Formulate strategies of company management.
 11. Evaluate the technical, social and legal impact of new scientific discoveries and new technological developments.
 12. Propose projects and actions in accordance with the principles of ethical responsibility and respect for fundamental rights and responsibilities, diversity and values democráticos.
 13. Carry out scientific thinking and critical reasoning in matters of preventions and security.
 14. Show respect for diversity and the plurality of ideas, people and situations.
 15. Be able to communicate efficiently in English, both orally and in writing.
 16. Explain the explicit and implicit deontological code for the area of knowledge.
 17. Apply tools and develop specific software for solving the problems that are particular to security, the environment, quality and social corporate responsibility.
 18. Apply the basis of statistics, economics and finance, in the applicable legal framework and the informatics necessary to undertake prevention and security.

Contents

SYLLABUS

BLOCK 1

Lesson 1. Introduction and methodology of the subject.

Lesson 2. Basic concepts of information technologies.

Lesson 3. Basic concepts of information security and cybersecurity.

BLOCK 2

Lesson. Known cybersecurity events.

Lesson 5. Cyber threats: definition and types.

Lesson 6. Artificial intelligence and cybersecurity.

Lesson 7. Cyber defense aircraft and national cybersecurity.

BLOCK 3

Lesson 8. State and European regulations on cybersecurity.

Lesson 9. Technological crimes.

Lesson 10. Electronic evidence.

Lesson 11. Forensic Preparation and Digital Forensic Investigation.

BLOCK 4

Lesson 12. Protection of information systems assets.

Lesson 13. Analysis of the main cybersecurity standards.

Lesson 14. Critical infrastructures and Business Continuity Plan.

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
RISC SCENARIOS STUDY AND RESOLUTION	47	1.88	
PRACTICAL CASES PREPARATION	47	1.88	
SUPPORT TUTORIES FOR FOLLOW-UP OF TEACHING UNITS	2	0.08	
PROFESSORS EXPLANATION	44	1.76	

Teaching language: Catalan

Lectures in the classroom correspond to the master methodology in which the teacher exposes the subject matter of study, but also the debate and solve problems and situations, the rest corresponds to practical sessions where students work in groups, discussing materials reflective and solving concrete cases. The contents studied in the theoretical sessions (in addition to the compulsory basic bibliography) will be evaluated through written tests. On the other hand, the contents worked on in the practical sessions will also be evaluated through the delivery of the tasks carried out.

Likewise, the students, outside the classroom, contribute to the learning of the subject with the search of documentation of topics related to the subject matter of study. Each student, in addition to his / her attendance in the classroom and the individual study, must carry out a search for documentation and personal consolidation work on what is presented in class

Annotation: within the schedule set by the centre or degree programme, 15 minutes of one class will be

reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
FINAL EXAM	50%	2	0.08	2, 6, 8, 9, 14
GROUP WORK	25%	4	0.16	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18
PRACTICAL EVALUATION ACTIVITIES	25%	4	0.16	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18

The evaluation of the subject is based on gathering different evidence funds for the score on student participation that allows the student to continuously evaluate. We propose, then, a continuous evaluation, measured through the written comments on the works, problems and forums directed by the subject, the delivery of the work worked in group in the practice sessions and written exams.

In order to obtain a positive evaluation, at least all the sections (A, B and C) above 50% must be overcome.

Students will obtain a not assessed/not submitted course grade unless they have submitted more than 30 % of the assessment items.

Continuous assessment

a) PRACTICAL WORK (25% OF THE FINAL NOTE)

These practical works will be requested during the semester and will focus on specific aspects that will determine the teaching staff. Each of the works must be evaluated above 40% and must be delivered on the proposed date according to the schedule. The average of practical work will be 20% of the course grade.

The works will be recoverable (in the week dedicated for that purpose at the end of the semester). Students who have not submitted any of the works at the scheduled time will not be evaluated and will not be able to recover them, except for those who provide a justification (written document).

b) GROUP WORK (25% of the final grade)

The practice will consist of the presentation of a team work related to the topic of the subject, with students having to develop a prevention program aimed at vulnerable groups. Obtain a minimum grade of 3 (out of a total of 10) to be able to add the activity to the continuous evaluation.

Final assessment

A) 2 FINAL EXAMINATION (50% OF THE FINAL NOTE)

The students, individually, will perform a final exam, this will be done on the official date of the calendar established by the EPSI. In this exam you must obtain a minimum qualification of 50%. This exam will consist of a test of thirty questions about the syllabus of the subject and the resolution of a practical case on the analyzed subjects. As for the test type test will consist of thirty questions with multiple choice (four answers only one correct), with a penalty for incorrect question of 0.25 / 30 (or four incorrect ones a correct one). The exams will be recoverable a week dedicated to that effect at the end of the semester. Students not presented will not be evaluated, except for those who provide a justification (written document).

Re-evaluation

In case of not passing the subject according to the aforementioned criteria (continuous evaluation), a recovery test may be done on the date scheduled in the schedule, and it will cover the entire contents of the program.

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

Students who need to change an evaluation date must present the justified request by filling in the document that you will find in the moodle space of Tutorial EPSI.

Plagiarism

Without prejudice to other disciplinary measures deemed appropriate, and in accordance with current academic regulations, "in the event that the student makes any irregularity that could lead to a significant variation in the grade of an evaluation act, it will be graded with a 0 This evaluation act, regardless of the disciplinary process that can be instructed In case of various irregularities occur in the evaluation acts of the same subject, the final grade of this subject will be 0 \".

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

Changing the date of a test or exam

Students who need to change an assessment date must submit the justified request by completing the document that they will find in the moodle space for EPSI Tutoring. Once the document is completed, it must be sent to the teaching staff of the subject and to the coordination of the Degree.

Revision

At the time of carrying out each evaluation activity, the teaching staff will inform the students of the mechanisms for reviewing the qualifications. For single assessment students, the review process will be the same.

Single Assessment

Students who opt for the single assessment will take a final synthesis test of all the content of the subject (50%) and will deliver the subject work (50%). The date for this test and the delivery of the course work will be the same scheduled in the schedule for the last continuous assessment exam. The same recovery system is applied as for the continuous evaluation. The tests/exams may be written and/or oral at the discretion of the faculty.

Evaluation of students in the second or more call

Students who repeat the subject must take the scheduled tests and exams and deliver the subject work on the dates indicated in the Moodle classroom. The tests/exams may be written and/or oral at the discretion of the faculty.

Use of IA

This subject allows the use of AI technologies as an integral part of the submitted work, provided that the final result reflects a significant contribution from the student in terms of analysis and personal reflection. The student must clearly (i) identify which parts have been generated using AI technology; (ii) specify the tools used; and (iii) include a critical reflection on how these have influenced the process and final outcome of the activity.

Lack of transparency regarding the use of AI in the assessed activity will be considered academic dishonesty; the corresponding grade may be lowered, or the work may even be awarded a zero.

In cases of greater infringement, more serious action may be taken.

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Velasco Núñez, E. (2015). "Los delitos informáticos", *Práctica Penal: cuaderno jurídico* (núm.81) pp. 14 a 28.

On-line resources:

ENISA (Agencia Europea para la ciberseguridad) - <https://www.enisa.europa.eu/>

Instituto Nacional de Ciberseguridad - www.incibe.es

Agencia Española de Protección de Datos www.agpd.es

SIC - Revista de Ciberseguridad, Seguridad de la Información y Privacidad - www.revistasic.es

Wired - www.wired.com

CIBER Elcano http://www.realinstitutoelcano.org/wps/portal/rielcano_es/publicaciones/ciber-elcano/

Software

No es necesario programario para esta asignatura.

Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(TE) Theory	1	Catalan	second semester	afternoon
(TE) Theory	2	Catalan	second semester	afternoon
(TE) Theory	3	Catalan	second semester	afternoon