

Risk Analysis

Code: 101829
ECTS Credits: 6

2025/2026

Degree	Type	Year
Prevention and Integral Safety and Security	FB	1

Contact

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Teaching groups languages

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

Prerequisites

This subject doesn't have any pre-requierments

Objectives and Contextualisation

Objectives:

Know the concept of risk Internalization and adaptation of the concepts of risk, risk analysis, governance, prevention ...

Development of practical cases based on these concepts.

Know the decision-making processes and their different implications in the field of Risk Analyze existing discursive strategies to deal with various types of risk.

Assess the risk and its impact on safety and prevention

Competences

- Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- 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.
- Maintain a positive attitude with respect to professional and personal growth.
- Make changes to methods and processes in the area of knowledge in order to provide innovative responses to society's needs and demands.
- Respond to problems applying knowledge to practice.
- 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.
- 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.

- Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
- Take account of social, economic and environmental impacts when operating within one's own area of knowledge.
- Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.
- 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 sex- or gender-based inequalities and the gender biases present in one's own area of knowledge.
3. Analyse the situation and identify the points that are best.
4. Critically analyse the principles, values and procedures that govern professional practice.
5. Draw up management proposals for prevention and security in an organisation.
6. Maintain a positive attitude with respect to professional and personal growth.
7. Propose means of evaluating projects and actions for improving sustainability.
8. Propose new methods or well-founded alternative solutions.
9. Propose projects and actions that incorporate the gender perspective.
10. Respond to problems applying knowledge to practice.
11. 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.
12. 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.
13. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
14. Take a preventative view in the area of security.
15. Use the capacity for analysis and synthesis to solve problems.
16. Weigh up the risks and benefits of both your own proposals for improvement and those of others.
17. Work and learn autonomously.
18. Work in institutional and interprofessional networks.

Content

In the subject of Risk Analysis students will know the concept of risk and the different techniques to evaluate and analyze it. As a result of this analysis, the necessary skills will be acquired to proceed to convert the information into intelligence.

BLOCK 1: Risks and associated concepts

BLOCK 2: Analysis technique and its impact on prevention and safety.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Lectures	44	1.76	4, 2, 1, 3, 14, 6, 16, 8, 18, 15

Type: Supervised

Exercises and debates in class	12	0.48	10, 16, 7, 8, 9, 13, 11, 12, 15
Type: Autonomous			
Study of the material and realization of the practices	94	3.76	1, 10, 5, 6, 16, 12, 18, 17

Teaching language: Spanish

In order to achieve the learning objectives described in this Guide we will develop a methodology that combines individual study, and the realization of practical cases, as well as master classes where the teacher outlines the main points of each topic.

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	Weighting	Hours	ECTS	Learning Outcomes
Continuous evaluation	50%	0	0	4, 2, 1, 3, 10, 5, 6, 16, 7, 8, 9, 13, 11, 12, 18, 17, 15
Exam	50%	0	0	4, 2, 1, 3, 14, 10, 6, 11, 12, 18, 17

CONTINUOUS ASSESSMENT

There will be 2 individual PECs corresponding to the topics studied in the course. All PEC has a weight of 50% of the final grade of the course. The remaining 50% corresponds to the theoretical exam.

The exam averages with the continuous evaluation regardless of the grade obtained.

The total weighted average must be 5 points or higher in order to pass.

SINGLE EVALUATION

Students who opt for the single evaluation will take a final synthesis test of all the content of the course (50%) and will hand in a document containing the solutions to the PECs of the course (50%).

The date for this test and the delivery of the work of the subject will be the same scheduled in the timetable for the last continuous evaluation exam.

The same recovery system will be applied as for the continuous evaluation.

EVALUATION OF THE STUDENTS IN SECOND OR MORE SUMMONS

Students who repeat the course will have to take the scheduled tests and exams and hand in the course work on the dates indicated in the Moodle classroom.

SECOND CHANCE EXAMINATION

The student who does not pass the course, who does not reach 5 (total) out of 10, according to the criteria established in the two previous sections may take a final exam provided that the student has been evaluated in a set of activities, the weight of which is equivalent to a minimum of two thirds of the total grade of the course. If the student has not been evaluated of these two thirds because he/she has not taken the tests, he/she will obtain a grade of Not Presented, without the possibility of taking the final exam.

In this exam the whole of the contents of the subject that have not been passed in the continuous evaluation will be re-evaluated.

In the case of passing the final exam, the course will be approved with a maximum of 5, regardless of the grade obtained in the exam.

CHANGE OF DATE OF A TEST OR EXAMINATION

Students who need to change an evaluation date must submit the request by filling out the document that can be found in the EPSI Tutoring Moodle space.

Once the document has been filled in, it must be sent to the professor of the subject and to the coordination of the Degree.

REVIEW

At the time of each evaluation activity, the faculty will inform the students of the grade review mechanisms.

For single evaluation students, the review process will be the same.

OTHER CONSIDERATIONS

Without prejudice to other disciplinary measures deemed appropriate, and in accordance with current academic regulations, "in the event that the student performs any irregularity that may lead to a significant variation in the grade of an act of evaluation, this act of evaluation will be graded with a 0, regardless of the disciplinary process that may be instigated. in the event that several irregularities occur in the acts of evaluation of the same subject, the final grade of this subject will be 0 ".

If during the correction there are indications that an activity or work has been done with answers assisted by artificial intelligence, the teacher may supplement the activity with a personal interview to corroborate the authorship of the text.

If there are unforeseen circumstances that prevent the normal development of the course, the teacher may modify both the methodology and the evaluation of the course.

REVALUATION

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 recovery the students must have been previously evaluated in 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

Not withstanding other disciplinary measures deemed appropriate, and in accordance with the current academic regulations, irregularities committed by a student that may lead to a variation of the qualification will be classified by zero (0). For example, plagiarizing, copying, ..., an evaluation activity, will imply suspending this evaluation activity with zero (0). Assessment activities qualified in this way and by this procedure will not be recoverable.

IA Restricted use: "For this subject, the use of Artificial Intelligence (AI) technologies is permitted exclusively in support tasks, such as bibliographic or information searches, text correction or translations. The student must clearly identify which parts have been generated with this technology, specify the tools used and include a critical reflection on how these have influenced the process and the final result of the activity. The lack of transparency in the use of AI in this assessable activity will be considered a lack of academic honesty and may lead to a partial or total penalty in the grade of the activity, or greater sanctions in serious cases."

Other Considerations

Due to unforeseen circumstances that prevent the normal development of the subject, the teaching staff may modify both the methodology and the evaluation system of the subject.

Bibliography

The following bibliography is recommended:

1. ***"Risk Analysis: A Quantitative Guide"***

Autor: David Vose

Editorial: Wiley

Año: 2008

2. ***"Risk Management and Financial Institutions"***

Autor: John Hull

Editorial: Wiley

Año: 2018

3. ***"Fundamentals of Risk Management: Understanding, Evaluating and Implementing Effective Risk Management"***

Autor: Paul Hopkin

Editorial: Kogan Page

Año: 2018

4. ***"Enterprise Risk Management: From Incentives to Controls"***

Autor: James Lam

Editorial: Wiley

Año: 2017

5. ***"The Essentials of Risk Management"***

Autores: Michel Crouhy, Dan Galai, Robert Mark

Editorial: McGraw-Hill

Año: 2014

Software

This subject will use the basic software of the Office 365 package

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(TE) Theory	1	Catalan/Spanish	first semester	afternoon
(TE) Theory	2	Catalan/Spanish	first semester	afternoon