

Methodology for Writing Projects II

Code: 101826
ECTS Credits: 6

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

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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

Prerequisites

This subject doesn't have any pre-requierments

Objectives and Contextualisation

Familiarize yourself with the types of emergencies and their normative norms at the autonomic, municipal and private level.

Assume the most common structure guidelines for security and emergency projects.

Indicate the knowledge that will be used in the practice of deepening the planning of emergencies, prevention and implantation.

Get acquainted with the means and measures of self protection.

Assume the interrelation between the planning and the activity criteria

Competences

- Carry out analyses of preventative measures in the area of security.
- Carry out scientific thinking and critical reasoning in matters of preventions and security.
- Efficiently manage human resources.
- Evaluate the technical, social and legal impact of new scientific discoveries and new technological developments.
- Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
- Identify the resources necessary to respond to management needs for prevention and integral security.
- 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.

Learning Outcomes

1. Carry out scientific thinking and critical reasoning in matters of preventions and security.

2. Coordinate the resources of the three main subsystems of the prevention and integral security sector: people, technology and infrastructures.
3. Design a project applied to integral security and prevention in an organisation.
4. Design and implement recovery plans following disasters and mechanisms for contingencies.
5. Evaluate the technical, social and legal impact of new scientific discoveries and new technological developments.
6. Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
7. Identify the infrastructure, technology and resources necessary to respond to operations in prevention and integral security.
8. Respond to problems applying knowledge to practice.
9. Select the minimum resources for efficient risk management.
10. Use the capacity for analysis and synthesis to solve problems.
11. Work and learn autonomously.

Content

Unit 1.- Introduction to Planning in the field of security and emergencies

- Topic 1.- Emergency planning

- 1.- Introduction
- 2.- Plan of self-protection or emergency plan
- 3.- Pre-plan for emergencies
- 4.- Planning in emergencies
- 5.- The obligation to make a self-protection plan

Unit 2.- Basic regulations for civil protection in Catalonia

- Topic 2.- Introduction to civil protection

- 1.- Civil protection in Catalonia: what is objectives and organization
- 2.- Civil protection actions
- 3.- Civil protection planning
- 4.- Map of civil protection of Catalonia

- Topic 3.- Basic rules of self-protection

- 1.- Statute of Autonomy and Civil Protection Law.
- 2.- Decree of self-protection of Catalonia
- 3.- Activities and centers with obligation.
- 4.- Minimum contents of the self-protection plan
- 4.- Accredited technicians
- 5.- Hermes Platform and electronic signature

- Topic 4.- Assistance teams external to a PAU

- 1.- Introduction

- 2.- Group of intervention.
- 3.- Order group.
- 4.- Healthcare group
- 5.- Logistics Group
- 6.- Other specialist groups
- 7.- Emergency communication centers

Unit 3 Basic elements for developing self-protection plans

- Topic 5.- Risk analysis

- 1.- Introduction
- 2.- Danger (danger, threat)
- 3. Vulnerability
- 4.- Resilience
- 5.- Exhibition
- 6.- Risks in a self-protection plan

- Topic 6.- Basic knowledge of fires

- 1.- Introduction
- 2.- Fire and Prevention of forest fires
- 3.- Fire fighting equipment in buildings

- Topic 7.- Calculation of internal risk

- 1.- Introduction
- 2.- Fire risk for the method of the fire load
- 3.- Calculation of the risk by the simple factor method

- Topic 8.- Technical Building Code

- 1.- Introduction
- 2.- Technicalbuilding code. Protection conditions against fires.

- Topic 9.- Action plan

- 1.- Introduction
- 2.- Scenarios, accidents or situations that can activate a PAU
- 3.- Activation criteria or phases
- 4.- Action sequence
- 5.- Integration of the PAU with higher level plans

- Topic 10.- Human teams of a PAU

- 1.- Introduction
- 2.- Identification of a group
- 3.- Functions and equipment of a PAU
- 4.- Meeting point
 - Topic 11.- Simulations
 - 1.- Introduction
 - 2.- Objectives of the simulations
 - 3.- Types of drills
 - 4.- Preparation stages of a drill
 - 5.- Investigation of incidents and emergencies
 - Topic 12.- Basic drawing concepts
 - 1.- Ladder and Ladder
 - 2.- Plans
 - 3.- Symbolism

Methodology

"Methodology for the drafting of projects (II)" has a theoretical side and a practical side. The theoretical aspect is taught through master classes and through classes where examples and exercises are put together that are solved jointly in the classroom. The practical side of the subject is developed through exercises and work. The exercises involve solving specific situations that can be done in the classroom or outside the classroom. The works are carried out outside the classroom and individually, although in class face doubts are solved and guided towards its resolution.

The subject has a MOODLE page on the Virtual Campus where you will find the materials of the subject, news and indications of the subject and the system for the delivery of work, among other applications.

To access it, you must enter the Virtual Campus of the UAB, whose address is: <https://cv.uab.cat/>. You must enter with the University Identification Number (NIU) and the passphrase that is provided during the enrollment process.

The Virtual Campus is also the main communication tool for students with the teacher, both at the level of doubts and of communication of possible problems in the development of the subject. When a student wishes to contact a teacher, they will use Moodle classroom messaging preferably using email. Tutorials with the teaching staff will be arranged by email.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
clas master	44	1.76	1, 8, 6, 9, 10, 5
Type: Supervised			

Support tutorials	12	0.48	1, 4, 3, 7, 10, 5
Type: Autonomous			
jobs, exercises and studies	94	3.76	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5

Assessment

The evaluation is continuous and involves the carrying out of different exams, exercises and works that allow obtaining up to 10 points. Continuous assessment is designed to enhance the student's work methodology and the achievement of the knowledge and competences of the subject. The monitoring of the continuous assessment can not only be translated into an important component of the evaluation of academic performance, but is a fundamental tool that is made available to the student in order to facilitate a work pace and "Rigorous and organized study of your learning process.

The 10 points are obtained from the following works, exercises and exams:

a) Exercise of concepts of emergency planning. (1 point)

It will be necessary to demonstrate that the theory of emergency planning has been assumed from a practical and relational vision. For some concepts, it will be necessary to find and analyze a specific emergency that has happened.

b) Work on risk analysis (2 points)

Real data will be provided so that the student can begin to calculate the internal and external risk analysis of a self-protection plan. It will be necessary to use search and location tools, the civil protection map and integrate theoretical concepts into real and practical cases.

c) Work on the Technical Code of the building where it will be necessary to demonstrate that it has learned to calculate allowances, evacuation steps, fire protection measures and fire resistance of the building materials 3 points.

d) Review

The exam will be done in two days, in the first one it will evaluate the practical part and of calculations and has a value of 2 points. In this exam, paper materials, CTE-SI and class papers or other necessary documents can be carried out.

The second exam will be theoretician with a value of 2 points, with questions of true or false or of choosing a correct answer and also of developing questions about the whole subject of the subject. No material can be carried in this test.

To be able to add the different scores, it is essential to meet the following conditions:

- Take a note equivalent to 5 out of 10 in the theoretical exam and in practice. Otherwise, the Final Exam for Semester will be required.
- Take a note equivalent to 5 out of 10 in different jobs and exercises. Otherwise, it will be necessary to present it again on the day of the Final Exam of Semester.

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 application by filling in the document that will be found in the moodle Tutorització EPSI..

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
Exam	40%	0	0	8
Exercising planning and emergency concepts	10%	0	0	4, 6, 7
Work risk analysis	20%	0	0	2, 1, 4, 8, 6, 7, 9, 11, 10
work on the technical code of the building	30%	0	0	1, 3, 8, 7, 9, 11, 10, 5

Bibliography

Aznar Carrasco, A. (1990). Fire protection Analysis and Design of systems. Madrid: Editorial Alcion.

Beck, U. (2006). The society of risk: towards a new modernity. Barcelona: Ediciones Paidós.

Search and validation of parameters of the fire load in industrial establishments. Annex Tables published by IDES.

Contelles Díez, E.A. (2014). Emergencies: basic applications for the development of a self-protection manual. Madrid: Ediciones Marcombo.

AAVV (1995). Basic Firefighter Manual. Vitoria: Central publications service of the Basque Government.

State legislation

- Law 17/2015, of July 9, of the National Civil Protection System
- Law 31/1995, of November 8, on the prevention of occupational hazards
- Royal Decree 314/2006, of March 17, which approves the Technical Building Code

Catalan legislation

- Law 4/1997 of 20 May, on civil protection in Catalonia
- Decree 30/2015, of March 3, which approves the catalog of activities and centers obliged to adopt measures of self-protection and fixes the content of these measures

Web links

- Page on self-protection plans of the Generalitat of Catalonia
- Web of the civil protection map of Catalonia