

2020/2021

Practicum IV

Code: 104694 ECTS Credits: 6

Degree	Туре	Year	Semester
2502501 Prevention and Integral Safety and Security	ОВ	3	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

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Teachers

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Prerequisites

This subject does not have any prerequierments

Objectives and Contextualisation

The training objectives that are intended to achieve in the subject are the following:

- Introduce the student in the general aspects of integral security applied to the logistics and transport infrastructures, taking as an example the transport by rail.
- Make the student aware of the regulations regarding civil protection, fire protection and self-protection.
- Present the student with technical criteria and methodologies for the identification, analysis and evaluation of emergency risks.
- Preparation by the student of a Self-protection Plan project of a logistics and transport infrastructure in application of current regulations in Spain and autonomous communities.
- Acquire knowledge in the use of AUTOCAD to be able to manipulate a plan of the architecture of a logistics and transport infrastructure and create the plans required by the regulations.
- Acquire basic knowledge of traffic safety in rail transport.
- Introduce the students in the aspects of patrimonial security and citizen security in the logistical and transport infrastructures.

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.

Use of Languages

Principal working language: spanish (spa)

Some groups entirely in English: No Some groups entirely in Catalan: Yes Some groups entirely in Spanish: No

- 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

Contents of the theoretical sessions

- Global vision of the subject
- Introduction to the legal framework: Reference regulation
- Structure of the Project Structure of the self-protection plan. Comparison of current legislation
- Basic notions of the railway model I: Railway manager Operator. Management and Infrastructure Centers
- Basic notions of the railway model II: Operators' Management Centers. Basic concepts AUTOCAD.
- DOCUMENT 1: Identification of the installation. Inventory, analysis and risk assessment. Evaluation of the evacuation. Confinement evaluation Plans
- DOCUMENT 2: Inventory and description of the material means and self-protection measures.
 Sectorization Human resources. Corrective measures of risk. Blueprints
- DOCUMENT 3: Action manual. Object. Identification of emergencies.
- DOCUMENT 3: Emergency equipment. Actions to be taken during the emergency.
- DOCUMENT 3: Action sheets. Integration in higher-level plans.
- DOCUMENT 4: Implementation, maintenance and update. Training and information. Drills Annexes.
 Directories, Models, Plans and Cards. Preparation and realization of a simulation.
- Time Management MS Project. Cost management
- Security in the circulation. Introduction to railway systems and subsystems. Subsystems infrastructure.
 Command and control subsystems.
- Patrimonial Security: Organization of services. Operating procedures.

Contents of practical sessions

- PRACTICE 1. Competence in AUTOCAD.
- PRACTICE 2. Preparation of Document 1
- PRACTICE 3. Preparation of Document 2
- PRACTICE 4. Preparation of Document 3/4

PRACTICE 5. Development of communication skills

Methodology

The autonomous activities will correspond to the personal study, as well as the resolution of the exercises raised by the teacher, as well as the elaboration of the project based on the contents of the subject. Each student will have to look up documentation related to the project. Students will exercise their communication skills and the knowledge of the project by means of the exposition and defending in a brief and summary way the project developed by the rest of classmates and the teachers' court

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Class	6	0.24	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5
Type: Supervised			
Continuous evaluation assestments	24	0.96	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5
Type: Autonomous			
Individual study	120	4.8	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5

Assessment

The assessment parameters of each one of the aspects considered in the evaluation are the following:

1. Individual Theoretical Exam

The student will have to pass a theoretical examination in order to evaluate the individual knowledge of the basic principles and the contents of the subject, and will be done on the contents explained in class until the time of the test.

The exam will consist of two parts:

PART 1: Test of 10 questions with a correct answer of 4 possible answers.

The criteria for the assessment of the answers will be the following:

1 correct answer: 1 point

1 incorrect answer: - 0.25

Unanswered questions will be evaluated with a 0.

The overall results of the test will correspond to the sum of the assessment of each question. In the case of negative global assessments of the test, they will be rated 0.

PART 2: 5 written answer questions.

Each response will be qualified in a value between 0.0 and 2.0 depending on the content respond to the question posed and the degree of excellence of the response.

The overall results of the test will correspond to the sum of the assessment of each question. In the case of negative global assessments of the test, they will be rated 0.

The overall qualification of the exam will be carried out by the arithmetic mean of the two parts and will be a value of a maximum of 10 points.

2. Individual practice exercises

The student will have to deliver by means of tasks in the moodel classroom the practical exercises that professors create and 2 partial deliveries of the project before the final delivery.

The overall assessment of the set of individual exercises and the partial deliveries of the project will be carried out on a maximum value of 10.0 and a minimum of 0.0.

It will be necessary for the student to deliver, respecting the established deadlines, of all the exercises and partial project deliveries raised so that they can choose to achieve a minimum score of 5 points.

On the other hand, the quality in the elaboration of the exercises (complete content and appropriate to the proposed task in the established terms) will be assessed.

The overall qualification of the individual exercises will be worth about a maximum of 10 points.

1. 3. Individual assessment of the work by the tutor

The tutors of the subject, will assess individually the overall work of each student taking into account the following aspects:

- Participation in class.
- Interest and inquiries for continuous improvement.
- Evolution of the content of the submitted project.
- Respectful attitude towards the development of the class.
- Contributions to the objective of the subject, beyond those strictly proposed.

The qualification of the individual assessment of the work by the tutor will be a value of a maximum of 10.0 points.

4. Evaluation of the submitted project

The students must present in groups of 4 people maximum, a project of security and prevention in logistical and transport infrastructures according to the parameters established in the subject.

The parameters that determine the content of the project are:

- A project will be presented indicating the link with the prevention and security and the special focus given by the railway transport networks to the knowledge acquired to date in the degree.
- The project will focus on the development and implementation of a Self-Protection Plan in a logistics and transport infrastructure, taking as a model, developed in class, the railway field, and more specifically one of the following cases: An underground transport station Travelers, a Logistic Center for Goods Transport by Rail or a Railway Tunnel
- The project will contemplate the planning of the time and resources necessary for its development and implementation.
- The delivery of the project will be done in 2 files. The project document will be delivered in a single file (preferably pdf) and on the other hand the plan attachment will be delivered in a Auto CAD file.

The qualification of the submitted project will be a minimum value of 0.0 on a maximum of 10.0 points, taking into account that:

You can only get scores of 5.0 points if:

- The content of the Project is complete (there are no sections left, or these respond to the content they indicate)
- The maps are attached in the AutoCAD file and the rest of the document in Word or PDF file.

In order to evaluate the project presented, it will be taken into account:

- Spelling and written formal expression.
- The clarity of the contents and the cleanliness of the presentation.
- The complete existence of all the contents requested in the subject.
- Adaptation of the contents to the methodologies and work procedures used in the subject.
- Adaptation of the contents of the project to the case addressed by the student.
- The contribution of new visions or approaches not treated in class but appropriate for the case worked and the benefits it requires.
- 5. Evaluation of the exhibition and defense of the Project

The students will have to carry out the exercise by groups to exhibit and to defend the project realized before

The qualification of the exhibition and defense of the Project will be a minimum value of 0.0 on a maximum of 10.0 points.

In order to evaluate the exhibition and defense, it will be taken into account some groupal aspects:

- Audiovisual media used
- Representative and significant exposed contents of the entire project

Some individual aspects will be be taken into account as well:

- Control over exposure time
- Communication skills (clarity in explanations, mastery of the exposed content, support in audiovisual media ..)

GLOBAL ASSESSMENT OF THE SUBJECT

The global evaluation of the subject will be made by means of the weighted sum of the different aspects evaluated according to the percentages indicated at the beginning of point VIII and will be a value between 0.0 and 10.0 points valued as indicated the UAB Academic Regulations:

From	То	Qualitative
NP	NP	"No presentado"
0,0	4,9	"Suspenso"
5,0	6,9	"Aprobado"
7,0	8,9	"Notable"

9,0	10,0	"Excelente"
9,0	10,0	"Matrícula de Honor"

The calculation will respond to the following formula according to the numbering indicated at the beginning of the point

GRADE OF THE SUBJECT = (1. X 0.20)+ (2. X 0.10)+ (3. X 0.10)+ (4. X 0.40)+ (5. X 0.20)

IT WILL BE ESSENTIAL TO HAVE COMPLETED THE THEORETICAL EXAMINATION TO BE ABLE TO APPLY THE SUBJECT ASSESSMENT CALCULATION. IN THE EVENT THAT IT IS NOT SO, IT MAY BE RE-ASSESSED, GETTING A MAXIMUM RATING OF 5 OF THIS TEST.

RECOVERY OF THE SUBJECT

According to article 112 ter. 2 of the UAB Academic Regulations, to participate in the recovery, students must have previously been evaluated in a set of activities, the weight of which is equivalent to a minimum of two-thirds of the total grade for the course.

In case of not passing the theoretical exam of the subject, this may be reevaluated obtaining a maximum grade of 5 for this test.

In addition to the exam, if any of the other assessmenttests are not taken or the grade of 5 is not passed, the continuous assessment will be passed to the final assessment. In other words, 100% of the grade will be that of the final evaluation tests in July. Passing these final tests carries a maximum score of 5 on the record.

The student who does not pass the subject in the first instance will have the right to reevaluate those aspects of the assessment system that can be improved in order to pass the subject.

The improvable aspects that may be reevaluated are:

- 1. Individual Theoretical Exam
- 4. Individual assessment of the work by the tutor
- 5. Evaluation of the submitted project
- 6. Evaluation of the exhibition and defense of the project

The evaluation system will follow the same principles indicated above

Without prejudice to other disciplinary measures deemed appropriate, and in accordance with current academic regulations, irregularities committed by a student that may lead to a change in the grade will be rated zero (0). For example, plagiarizing, copying, letting copy ..., an evaluation activity will involve suspending this evaluation activity with a zero (0). Assessment activities classified in this way and by this procedure will not be recoverable. If it is necessary to pass any of these assessment activities to pass the course, this course will be suspended directly, with no opportunity to recover it in the same course.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Assestment of the Individual Work	10%	0	0	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5

Assestment of the oral presentation	20%	0	0	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5
Assestment of the project	40%	0	0	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5
Individual exam	20%	0	0	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5
Practical exercices	10%	0	0	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5

Bibliography

Reial Decret 314/2006 Codi Tècnic de la Edificació.

http://www.codigotecnico.org/

Decret 30/2015 DECRET 30/2015, de 3 de març, pel qual s'aprova el catàleg d'activitats i centres obligats a adoptar mesures d'autoprotecció i es fixa el contingut d'aquestes mesures.

http://portaldogc.gencat.cat/utilsEADOP/PDF/6824/1409116.pdf

RD 393/2007 Norma Bàsica d'Autoprotecció

www.boe.es/boe/dias/2007/03/24/pdfs/A12841-12850.pdf

Llei 17/2015 de Protecció Civil

http://www.proteccioncivil.org/es/DGPCE/legisla/le_021985.htm

Llei 4/1997 de Protecció Civil de Catalunya

http://www.boe.es/diario_boe/txt.php?id=BOE-A-1997-14409

Reial Decret 842/2002 Reglament Electrotècnic de Baixa Tensió REBT (Ministerio de Industria Energía y Turismo)

http://www.boe.es/buscar/doc.php?id=BOE-A-2002-18099

Reial Decret 2267/2004 Reglament de Seguretat Contra Incendis en Establiments Industrials RSCIEI (Ministerio de Industria Energía y Turismo)

http://www.boe.es/buscar/doc.php?id=BOE-A-2004-21216

Reial Decret 513/2017 Reglament d'Instal·lacións de Protecció Contra Incèndis RIPCI (Ministeriode Economia, Industria y Competitividad)

http://www.boe.es/diario_boe/txt.php?id=BOE-A-2017-6606

PROTECCIÓ CIVIL.

Web de Protecció Civil del Departament d'Interior del Generalitat de Catalunya.

http://interior.gencat.cat/ca/arees_dactuacio/proteccio_civil/

Mapa de Protecció Civil del Departament d'Interior del Generalitat de Catalunya.

http://pcivil.icgc.cat/pcivil/map.jsp

PLANS D'AUTOPROTECCIÓ.

Capacitació per a la planificació de l'autoprotecció en l'àmbit de Catalunya

Material de suport. ISPC "Institut de Seguretat Publica de Catalunya"

http://ispc.gencat.cat/ca/1_linstitut /publicacions-ispc/

Emergencias: Aplicaciones básicas para la elaboración de un manual de autoprotección 3º edición

Enrique Alejandro Contelles Díaz

Ed. Marcombo

ISBN 978 84 267 21778

Guies per a la elaboració de Plans d'Autoprotecció

http://interior.gencat.cat/ca/arees_dactuacio/proteccio_civil/paus_hermes/

AUTOCAD

Autocad 2017. Manual Imprescindible

Antonio Manuel Reyes Rodriguez

Ed Anaya

ISBN/EAN 978 84 41538 61 0

AMBIT DE LES INFRAESTRUCTURES LOGISTIQUES I DE TRANSPORT FERROVIARIES

Gestió d'Infraestructures Ferroviàries. ADIF

http://www.adif.es/es_ES/index.shtml

Operació Ferroviària GRUP Renfe

http://www.renfe.com/empresa/index.html

Gestió i Operació Ferroviària FGC

http://www.fgc.cat/cat/index.asp

Material ferroviari. Trens

http://www.listadotren.es/

CIAF. Comisión de Investigación de Accidentes Ferroviario. Ministerio de Fomento

http://www.fomento.gob.es/MFOM/LANG_CASTELLANO/ORGANOS_COLEGIADOS/CIAF/

Agencia Estatal de Seguridad Ferroviaria. Ministerio de Fomento

http://www.seguridadferroviaria.es/AESF/lang_castellano/

RSSB. Rail Safety and Standards Board. (GB Rail)

http://www.rssb.co.uk/