Universitat Autònoma de Barcelona

2023/2024

Mobility and Road Safety

Code: 105745
ECTS Credits: 6

Degree	Type	Year	Semester
2502501 Prevention and Integral Safety and Security	OT	4	1

Contact

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Teaching groups languages

To check the language/s of instruction, you must click on "Methodolody" section of the course guide.

Teachers

Ferran Anguera Salvatella

Prerequisites

This subject doesn't have any pre-requierments

Objectives and Contextualisation

OBJECTIVES:

- Know the importance of people in Mobility differentiated from transport elements.
- Know how Mobility affects the Road Safety of people.
- Know international trends in environment and mobility
- Know and differentiate the regulations that regulate mobility and road safety issues.
- Know the instruments of Planning of mobility and road safety, applied to the company.
- Know the sector guides and the practical aspects necessary to implement a mobility and road safety plan in a company.

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.

- 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 changes to methods and processes in the area of knowledge in order to provide innovative responses to society's needs and demands.
- 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.
- 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.

Learning Outcomes

1. Analyse the preventative interventions in matters of security, environment, quality and social corporate responsibility and identify the inherent risk factors.
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. Coordinate the resources of the three main subsystems of the prevention and integral security sector: people, technology and infrastructures.
5. Critically analyse the principles, values and procedures that govern professional practice.
6. Draw up management proposals for prevention and security in an organisation.
7. Identify, develop or acquire and maintain the main resources necessary to respond to tactical and operational needs inherent in the prevention and security sector.
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. Propose new methods or well-founded alternative solutions.
11. Propose viable projects and actions that promote social, economic and environmental benefits.
12. Respond to problems applying knowledge to practice.
13. 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.
14. 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.
15. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
16. Take a preventative view in the area of security.
17. Use the capacity for analysis and synthesis to solve problems.
18. Work and learn autonomously.

Content

MOBILITY AND PUBLIC TRANSPORT TO CITY. Metro and bus, safety measures and contributed to the environmental wealth. Training of drivers and conductors.

MOBILITAT AND MEDIA ENVIRONMENT. Inici duna nova era. Our elements of urban mobility, from low emission zones to the DUM. Effects on companies

CONTENTS:

MOBILITY AND CITY. Mobility concept. Role of the automobile in society. The automobile industry, economic and social effects.

MOBILITY AND ENVIRONMENT. Beginning of a new era. New elements of urban mobility, from Low Emission Zones to DUM. Effects on companies.

FROM TRANSPORTATION TO MOBILITY. Evolution in Europe.

• White Paper on Transport

• Green Paper on urban mobility

MOBILITY IN SPAIN. The Sustainable Economy Law. SUMP and Business Plans

• The Mobility Law in Spain

• Autonomous mobility laws. Catalonia.

• Mobility and road safety in the company.

ROAD SAFETY AS A HEALTH RISK. WHO reports and public strategies.

TRAFFIC ACCIDENTS AND ROAD SAFETY. Competences of the administrations. The Law of Traffic and road safety. The point permits. Vial security felony.

ROAD SAFETY AND OCCUPATIONAL RISK PREVENTION. Occupational traffic accidents (ALT). Risk factor in accidents. Covid 19. Telecommuting.

GUIDES AND PLANS FOR MOBILITY AND ROAD SAFETY APPLIED TO THE COMPANY. Requirements of the Plan for mobility and road safety in the company.

THE NEW ROAD SAFETY MEASURES APPLIED TO THE COMPANY. Law 18/2021. Courses for professional drivers. Control of consumption of substances that can disturb professional driving.

Methodology

TEACHING LANGUAGE: CATALÀ

schemes and presentations that are made in the classes will not be posted in the Moodle classroom, except for a specific presentation that is necessary at the discretion of the teacher.

In the face-to-face classes, the general aspects and basic knowledge of mobility and road safety will be explained in a master class.

The Manual of the subject is a complement to the class explanations. These theoretical explanations will respond by applying this knowledge to the practical aspects of the general lines of the subject. Intervention and participation in classes will be valued.

The students will work out of class aspects of knowledge expansion and the practical aspects that are requested in the continuous evaluation tests.

Classes cannot be recorded, neither sound nor images. If any unauthorized recording is detected, it will be sufficient cause to suspend the course.

The use of mobile phones, tablets and computers may only be used in class for academic purposes, such as taking notes. The improper use of these technologies and that they do not meet the indicated academic criteria will penalize the student with 3 points of the final evaluation.

Documents such as recommended reading, articles or reports that complement or expand the class explanations will be posted in the Moodle classroom.

Note: 15 minutes of a class will be reserved within the calendar established by the center or by the degree for the students to fill in the surveys to evaluate the performance of the teaching staff and to evaluate the subject or module.

When students need or require a tutorial, it will be requested to the teacher's email and it can be done the day of class before or after 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.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Classes where the theoretical	40	1.6	5, 16, 9, 7, 10, 11, 14, 17
Continuous assessment tests	4	0.16	15, 13, 14
Type: Supervised			
Tutorials to support students in the realization of practical work.	12	0.48	4, 12, 15
Type: Autonomous			
Resolution of individual cases	60	2.4	2, 3, 16, 8, 4, 12, 6, 1, 9, 7, 11, 15, 13, 18, 17
Scheduled readings and recensions	34	1.36	5, 3, 16, 8, 1, 7, 11, 14, 18, 17

Assessment

Continuous evaluation
The evaluation system will consist of the preparation and delivery of two papers on a mobility and road safety plan in the company and a comment on a report on mobility and road safety. A theoretical exam must also be taken at the end of the course.
The work of the subject must have a mark of 2.5 to be able to add to the continuous evaluation.
The mark to pass the continuous evaluation will be the result of the sum of the evaluation or theoretical exam plus the two works. To pass the continuous assessment, this average must be 5 or higher.
Single Assessment
Students who opt for the single assessment will take a final synthesis test of all the content of the subject and will deliver the two assignments of the subject.
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 will be applied as for the continuous evaluation.
Evaluation of students in the second call or more

The students who repeat the subject will have to take the scheduled tests and exams and deliver the subject work on the dates indicated in the Moodle classroom.
Recovery exam
The student who does not pass the subject, who does not reach 5 (total) out of 10, in accordance with 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 for the subject.
If she has not been evaluated by these two third parties because she has not taken the tests, she will obtain a score of Not Present, without having the possibility of taking the final recovery exam.
In the case of passing the final exam, the course will be approved with a maximum of 5, regardless of the gradeobtained in the exam.
Changing the date of a test or exam
Students who need to change an assessment date must submit the request by filling in the document found in the Moodle space for EPSI Tutoring.
Once the document has been 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.
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 evaluation act, he will be graded with a 0 this act of evaluation, regardless of the disciplinary process that can be initiated. In the event that several irregularities occur in the acts of evaluation of the same subject, the final grade for this subject will be 0 ".
If there are unforeseen circumstances that prevent the normal development of the subject, the teaching staff may modify both the methodology and the evaluation of the subject.

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

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Individual work based on articles or research on an aspect that affects mobility and road safety related to the company.	15%	0	0	5, 8, 4, 12, 6, 1, 9, 10, 11, 15, 13, 14, 18, 17
Practical case, elaboration of a plan for mobility and road safety in a company.	35%	0	0	2, 3, 16, 8, 12, 6, 9, 7, 11, 13, 14, 18
Theoretical tests with questions on general aspects of mobility and legal aspects	50%	0	0	16, 8, 12, 1, 14, 17

Bibliography

Recommended bibliography:

At the beginning of the course, a PDF document will be provided that is considered a manual or reference for the subject.

The basic bibliography of the course, in addition to the readings that will be provided, must be complemented with the two reference guides that are indicated below their links. It can be downloaded in PDF.

PTT Guide: Transportation to Work Plans:

https://www.idae.es/sites/default/files/documentos/publicaciones_idae/guia-idae-019_ptt.pdf

and the DGT guide:

https://www.dgt.es/Galerias/seguridad-vial/estrategias-y-planes/seguridad-vial-en-la-empresa/Plan_maquetado.p

These two guides, in addition to the readings of the subject are basic to be able to carry out the practical part of the subject, during the course the obligatory reading of certain sections of these guides will be indicated.

As there is no standard that indicates the contents and phases of a mobility and road safety plan in the company, it is advisable to always follow a guide (there are several published by various entities) but these two are the most current and those considered as reference and with better content so that they are a reference in any mobility plan in the company.

Recommended reading:

"Ciudad y Movilidad. La regulación de la movilidad urbana sostenible". Andres Boix Palop y Reyes Marzal Raga.

Ediciones PUV-publicaciones Universidad de Valencia 2014.

Software

This subject will use the basic software of the office 365 suite