

Degree programme	Type	Course
Prevention and Integral Safety and Security	OP	4

Contact lecturer

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Group languages

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

Prerequisites

This subject does not have any pre-requirement

Objectives

- Know the key aspects for conducting studies of working conditions.
- Acquire the necessary knowledge for the design of jobs adapted to the person.
- Understand the ergonomic approach to physical factors: noise, lighting, environment chromatic, temperature, etc.
- Identify all preventive aspects related to work with visualization screens of data
- Understand the importance of the problems derived from the physical load and the establishment of adequate preventive measures.
- Know and know how to apply different methods of evaluating the postural load.
- Contribute to the improvement of the social and organizational aspects of the work with the objective of safeguard health and safety, with maximum comfort, satisfaction and effectiveness.
- Recognize and identify those psychosocial factors existing in the workplace, which can be cause diseases or decrease the capabilities of workers.
- Identify situations related to work stress and know the different strategies of the organization to face it.
- Adopt a critical perspective regarding a series of situations, which may lead to another series of psychosocial problems such as Burnout, work addiction, etc.

- Distinguish the problems arising from personal relationships at work and arrange the measures adequate to prevent it.
- Differentiate the key aspects that relate to the mental load.

Learning outcomes

1. Coordinate the resources of the three main subsystems of the prevention and integral security sector: people, technology and infrastructures.
2. Use the capacity for analysis and synthesis to solve problems.
3. Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
4. Respond to problems applying knowledge to practice.
5. Be able to adapt to unexpected situations.
6. Work in institutional and interprofessional networks.
7. Identify, manage and resolve conflicts.
8. 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.
9. 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.
10. 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.
11. Students must be capable of communicating information, ideas, problems and solutions to both specialised and non-specialised audiences.
12. Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
13. Propose new methods or well-founded alternative solutions.
14. Critically analyse the principles, values and procedures that govern professional practice.
15. Analyse the sex- or gender-based inequalities and the gender biases present in one's own area of knowledge.
16. Propose projects and actions that incorporate the gender perspective.
17. Identify the most common labour risk factors.
18. Implement and evaluate a plan for labour risk prevention in an organisation.
19. Apply systems of responsibility and management models particular to models of labour risk prevention management.
20. Analyse the situation and identify the points that are best.

Contents

Block: Applied Psychosociology

- Mental load at work. Analysis and evaluation
- Psychosocial factors
- Organizational structure of the work. I work shifts and night work.
- Characteristics of the company, the position and individual
- Stress and other psychosocial problems. The burnout syndrome. Mobbing
- Consequences of harmful psychosocial factors and their evaluation

- Psychosocial intervention: Methodology for evaluating occupational risk prevention programs with psychosocial components.

Block: Ergonomics.

- Ergonomics: Introduction. History. Relationship with other sciences. Concepts and classification. Techniques ergonomic
- Environmental conditions in ergonomics. Acoustic comfort Visual comfort. Thermal comfort. Comfort chromatic. Analysis and evaluation
- Conception and design of the job. Anthropometry applied to the design of work systems. Occupational biomechanics and job design
- Physical workload. Analysis and evaluation. Manual handling of loads. Analysis and evaluation
- Work positions. Analysis and evaluation. Repetitive movements. Analysis and evaluation. Evaluation of jobs. The ergonomic report.

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Supervised training activities	12	0.48	
Evaluation	4	0.16	
Autonomous training activities	94	3.76	
Master Classes	40	1.6	

Teaching language: Catalan

- The theoretical classes in the classroom, correspond to a master methodology in which the teacher will make a brief theoretical presentation of the subject matter of study.
- The practical classes will complement the theory given in the classroom and consist of developing exercises and individual or group work, in which the concepts explained in the theory part will be put into practice. Subsequently, a common set-up will be carried out, from which the corresponding academic conclusions will be shown.
- The autonomous activities outside the classroom will correspond to the individual study as well as the resolution of the exercises and works proposed by the teacher. These activities will be posted on Moodle for evaluation.
- The evaluation activities will serve to evaluate the knowledge and competences acquired by the students, according to the criteria presented in the following section.
- The tutorials with the teaching staff will be arranged by email

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
Evaluation activities programmed in the Moodle and evaluable practices performed in class.	50%	0	0	8, 9, 11, 12
Ergonomy and psychosociology: Scrythian and/or oral tests	50%	0	0	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

WRITTEN INDIVIDUAL TEST (A GLOBAL REVIEW OF THE TWO SUBJECT AT THE END OF THE SUBJECT IS DONE)

There will be two individual/group PECs corresponding to the topics studied in the course. Each PEC is worth 25% of the final grade for the course.

The remaining 50% corresponds to the theoretical exam (25% Ergonomics and 25% Psychosociology).

The exam is weighted through continuous assessment, regardless of the grade obtained, as long as a minimum of 5 is achieved.

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

RE-EVALUATION: The minimum grade for accessing the assignment is 3.5 (in the final face-to-face exam)

The student who needs to change an assessment date must submit the request by filling in the document in the MOODLE.

PLAGIARISM: Without prejudice to other disciplinary measures deemed appropriate, and according to current academic rules, "in case the student performs any irregularities that may lead to a significant variation in the grade of an assessment act, he will qualify with a 0 for this assessment, regardless of the disciplinary process that can be instructed. in the event of several irregularities in the assessment acts of the same subject, the final qualification of this assignment will be 0". Tests/tests may be written and/or oral at the discretion of the faculty.

Lights that re-grade the subject: In relation to pupils who have to re- course the subject, it should be stressed that the assessment methodology is the same as for the other learners

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.

USE OTHE IA: For this subject, the use of Artificial Intelligence (AI) technologies is permitted exclusively for support tasks, such as bibliographic or information searches, proofreading, or translations. Students must clearly identify which sections were generated with this technology, specify the tools used, and include a critical reflection on how these influenced the process and final outcome of the activity. Lack of transparency in the use of AI in this assessable activity will be considered academic dishonesty and may result in a partial or total penalty in the activity grade, or greater sanctions in serious cases.

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

Mandatory Bibliography:

Libro: Liderando el ¿bienestar? laboral: Orden o Caos

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Basic bibliography

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- Cruz J. A. (2011). Applied Ergonomics Madrid: Editorial Starbook.
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- Llorca J. L. ; Llorca L. ; Llorca M. (2015). Manual of ergonomics applied to the prevention of occupational risks. Madrid: Pyramid.
- Mondelo P. R. ; Gregori E. ; Barrau P. (2000). Ergonomics 1: Fundamentals. Barcelona: Edicions UPC.
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- Mondelo P.R. ; Gregori E. ; Barrau P. ; Blasco J. (2000). Ergonomics 3: Design of a job. Barcelona: Edicions UPC.
- Mondelo P.R. ; Gregori E. ; From Pedro O. ; Gomez M.A. (2013). Ergonomics 4: Work in offices. Barcelona: Edicions UPC.
- García A. L. (2017). Ergonomics and psychosociology applied to the prevention of occupational risks. Oviedo: Oviedo University Editions.
- Gutiérrez J.L. ; Moreno B. ; Garrosa E. ; (2005). Mental load and work fatigue. Madrid: Pyramid.
- Meseguer M. ; Soler M. I. (2010). Work Psychology. Murcia: Ed. Diego Marín.
- Nogareda M. (2003). Psychosociology of work. Madrid: Ministry of Labor and Social Affairs.
- Salanova M. (2009). Psychology of occupational health. Madrid: Synthesis.

Reading recommended online:

<chrome-extension://efaidnbmninnbpcjpcglclefindmkaj/https://scielo.isciii.es/pdf/mesetra/v57s1/especial.pdf>

WEB links

Generalitat of Catalunya. Departament d'Empresa i Ocupació. Seguretat i Salut Laboral.

ILO: Encyclopedia of Health and Safety at Work. Available in electronic format at <http://empleo.mtas.es/insht/index.htm>

ISTAS Portal. Trade Union Institute of Environment and Health. <http://www.istas.net/web/portada.asp>

Moncada, S., Llorens, C. and Kristensen, T. (2004). ISTAS21 method (CoPsoQ). Manual for the assessment of psychosocial risks at work. Madrid. Istas. Available at: http://www.istas.ccoo.es/descargas/m_metodo_istas21.pdf

Ergonomics in Spanish. : <http://www.ergonomia.cl/eee/Inicio/Inicio.html>

Government of La Rioja. Occupational Health Publications

Navarro Institute of Occupational Health

National Institute for Safety and Hygiene at Work. Portal of Ergonomics and Psychosociology

European Foundation for Working Conditions

Statistics about work. Eurostat

Basque Institute of Occupational Health and Safety. OSALAN

Software

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

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
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(TE) Theory	1	Catalan	first semester	afternoon
(TE) Theory	2	Catalan	first semester	afternoon