

Integrated Management Models: Environment

Code: 104011
ECTS Credits: 6

2025/2026

Degree	Type	Year
Prevention and Integral Safety and Security	OB	3

Contact

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Teachers

(External) Jaume Montes

Teaching groups languages

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

Prerequisites

This subject has no prerequisites.

Objectives and Contextualisation

Introduction:

The environment and natural resources are a common good of all humanity, both current and future. For this reason, both the society in general and the companies in particular have to take responsibility for the impact that we cause on the environment. This principle must be extended to all organizations and especially those that, due to their activity, may have a negative impact on the environment.

At present, we have several tools for environmental management in companies, including environmental management systems (ISO 14.001, EMAS, etc.) and the ecological labeling of more respectful products and services, such as systems of responsibility and sustainable development. These tools, voluntary but of a public nature, are based on the principle of continuous improvement of environmental management.

The concept of an integrated environmental management system is intimately linked to that of environmental and quality auditing. This could be defined as 'an organizational structure, planning of activities, responsibilities, practices, procedures, processes and resources to develop, implement, carry out and keep up to date the environmental policy of a company'. Moreover, policies and the economic context are driving private and public entities to implement circular economy strategies in order to get on the loop and be innovative in the new economic paradigm, where resources, products and services will have to last much longer within the system and consumption patterns will have to be much more responsible. The subject then

will introduce the basic concepts and strategies of the circular economy as a tool for environmental management and business strategy.

This subject will present the basic tools for environmental management and introduce circular economy for organizations, both public and private.

Objectives:

- Introduce general aspects about the environment and sustainable development.
- Describe the general concepts about organizational environmental management systems and products.
- Know the norm ISO 14001 and European eco-audits following the EMAS regulation.
- Apply different procedures necessary for the practical implementation of an environmental management and audit system based on specific cases.
- To introduce the concept and strategies of circular economy as a management tool for private and public companies.
- To enhance students' critical thinking skills and proactive identification of environmental aspects which may be at risk within a company.

Competences

- Be able to communicate efficiently in English, both orally and in writing.
- Carry out analyses of preventative measures in the area of 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.
- 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.
- Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
- 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.
- 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 in institutional and interprofessional networks.

Learning Outcomes

1. Analyse indicators of sustainability for academic and professional activities in the area including social, economic and environmental considerations.
2. Analyse the preventative interventions in matters of security, environment, quality and social corporate responsibility and identify the inherent risk factors.
3. Analyse the situation and identify the points that are best.
4. Be able to communicate efficiently in English, both orally and in writing.
5. Evaluate how gender stereotypes and roles affect professional practice.

6. Identify the resources necessary for managing security, the environment, quality and social corporate responsibility.
7. Identify the social, economic and environmental implications of the academic and professional activities in the field of self-knowledge.
8. Know how to communicate and transmit ideas and result efficiently in a professional and non-expert environment, both orally and in writing.
9. Propose means of evaluating projects and actions for improving sustainability.
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. Students must develop the necessary learning skills to undertake further training with a high degree of autonomy.
17. 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.
18. Use the capacity for analysis and synthesis to solve problems.
19. Work in institutional and interprofessional networks.

Content

Topic 1. Introduction to the environment and environmental management

Environment and sustainable development

Business and the environment

Environmental strategy in the company

Environmental management tools

Topic 2. Environmental management in the organization

Introduction to environmental management

Terms and definitions

Motivations and advantages

Options for implementing an EMS

Actors involved

Implementation stages

Economic valuation

Item 3. Environmental product management

Life Cycle Assessment

Introduction to environmental product management

Ecodesign

Environmental communication and greenwashing

Green purchasing

Item 4. Introduction to the circular economy as a tool for strategic business management

Introduction to the concept of Circular Economy

Introduction to Circular Economy Strategies

Legislative context

Circularity against single use plastics

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Evaluation	4	0.16	3, 8, 12, 2, 6, 7, 9, 10, 11, 17, 16, 15, 13, 14, 19, 18, 5
Master classes	12	0.48	3, 8, 10, 16, 15, 13, 14, 19
Type: Supervised			
Practical cases and discussion forums.	24	0.96	3, 8, 12, 2, 6, 10, 17, 16, 15, 13, 14, 19, 18
Type: Autonomous			
Personal study and resolution of practical cases.	110	4.4	3, 8, 12, 9, 10, 11, 17, 16, 15, 13, 14, 18, 5

Teaching language: Spanish.

The teaching methodology will combine the methodological techniques of the master classes together with the study of the case and the supervised and autonomous work by the student to improve the acquisition of knowledge and skills.

Students will prepare the topics independently, and the videoconference sessions will be dedicated to delving into the topics covered and resolving doubts. It is essential to prepare the topics before each session. In addition, a forum of doubts will be created, where the students will be able to realize the questions and comments that consider necessary on the subject.

The autonomous activities will correspond both to the personal study and to the resolution of the exercises and works proposed by the teacher. Each student will have to look for documentation of subjects related to the subject object of study and personal works of consolidation on what has exposed to class (programmed readings, individual exercises). You will also need to follow up and study different exercises and case studies.

Assessment activities will assess the knowledge and skills acquired by students, according to the criteria presented in the next section.

Tutorials with teachers 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	Weighting	Hours	ECTS	Learning Outcomes
Practicum.	50%	0	0	1, 3, 4, 8, 12, 2, 6, 7, 9, 10, 11, 17, 16, 15, 13, 14, 19, 18, 5
Written and/or oral tests to evaluate the knowledge acquired by the student.	50%	0	0	3, 4, 8, 12, 7, 9, 10, 17, 16, 15, 13, 14, 18, 5

CONTINUOUS ASSESSMENT:

Continuous Assessment Tests (PEC) (50%):

Throughout the course there will be a total of 3 continuous assessment practices, in groups of 2-3 people.

It is a requirement to obtain at least a 3.5 out of 10 of average mark of the 3 practices so that it does average with the rest of notes of the subject and therefore the note is evaluable.

Final exam (50%):

At the end of the course there will be a final exam.

It is a requirement to obtain at least a 3.5 out of 10 of the average mark of the final exam so that it averages with the rest of the marks of the subject and therefore the mark is evaluable.

Optional exercise (in English):

Once the 3 PECs have been completed, a 4th practical exercise in English will be proposed, which will be entirely voluntary for all students (and will have no effect on the final mark).

SINGLE EVALUATION:

Students who opt for the single assessment will take a final synthesis test of the entire course content (50%) and will complete the course work (50%).

The date for this test and the completion of the course work will be the same date scheduled in the timetable for the last continuous assessment exam.

The same recovery system is applied as for the continuous assessment.

EVALUATION OF THE STUDENT IN SECOND CALL OR MORE:

Students repeating the course must take the scheduled tests and exams and hand in the course work on the dates indicated in the Moodle classroom.

CHANGE OF DATE OF A TEST OR EXAM:

Students who need to change an evaluation date must submit the request by completing the document found in the EPSI Tutoring Moodle space.

Once the document is completed, it must be sent to the professor of the subject and the coordination of the Degree.

REVIEW:

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

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

RECOVERY EXAM:

If you do not pass the subject in accordance with the criteria mentioned above, you can take a recovery test on the date scheduled in the schedule, which will be about all the contents of the program. To participate in the recovery, students must have been previously assessed 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 grade that will appear in the student's file will be a maximum of 5-Passed.

Students who, due to attendance at meetings of the collegiate bodies of university representation or other reasons provided for in the EPSI evaluation regulations, are unable to attend the scheduled evaluation activities, have the right to a different day and time is set for their completion.

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

The tests / exams may be written and / or oral at the discretion of the teacher.

OTHER CONSIDERATIONS:

Without prejudice to other disciplinary measures that are deemed appropriate, and in accordance with current academic regulations, "in the event that the student makes 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 instructed, in the event that various irregularities occur in the acts of evaluation of the same subject, the final grade of this subject will be 0".

If there are supervening circumstances that prevent the normal development of the subject, the faculty 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 done with answers assisted by artificial intelligence, the teacher may complement the activity with a personal interview to corroborate the authorship of the text.

PLAGIARISM:

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.

Permitted Use of Artificial Intelligence (AI):

In this course, the use of Artificial Intelligence (AI) technologies is allowed as an integral part of the development of the work (interim reports and final report), provided that the final result reflects a significant contribution from the student in terms of analysis and personal reflection. The student must clearly identify which parts have been generated using AI technology, specify the tools used, and include a critical reflection on how these tools have influenced the process and the final outcome of the activity. Lack of transparency in the use of AI will be considered a breach of academic honesty and may result in a penalty in the activity's grade, or more severe sanctions in serious cases.

Bibliography

Basic bibliography:

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Generalitat de Catalunya (1997). Guia per a la implantació i el desenvolupament d'un sistema de gestió ambiental. Barcelona.

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Durán G (2007) Empresa y medio ambiente. Políticas de gestión ambiental. Ediciones Pirámide. Madrid.

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Kowszyk, Y., & Maher, R. (2018). Estudios de caso sobre modelos de Economía Circular e integración de los Objetivos de Desarrollo Sostenible en estrategias empresariales en la UE y ALC. Hamburgo: Fundación EU-LAC.

Morató, J., Tollin, N., Jiménez, L., Villanueva, B., Plà, M., Betancourth, C., ... & Pérez, E. (2017). Situación y evolución de la economía circular en España. Fundación COTEC para la Innovación: Madrid, Spain.

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Complementary bibliography:

Cascio J (1996) ISO 14000 guide: the new international environmental management standards. McGraw-Hill. New York.

Gema Durán Romero, Empresa y Medio ambiente, políticas de gestión ambiental, Ed. Pirámide. ISBN: 878-84-368-2012-4.

Marta Arévalo Contreras y Alfonso Ortega Lorca, Gestión Ambiental, ed. Síntesis, ISBN 978-84-9171-040-0.

Lozano Cutanda, Blanca, Juan Cruz Alli-Turrillas, "Administración y legislación ambiental", Ed. Dykinson (la nueva edición)

Empresa i Avaluació Ambiental. Departament de Territori i Sostenibilitat. Generalitat de Catalunya.

<http://www20.gencat.cat/portal/site/dmah/menuitem.685af0bd03466a424e9cac3bb0c0e1a0/?vgnnextoid=4977531>

EU Eco-Management and Audit Scheme (EMAS). http://ec.europa.eu/environment/emas/index_en.htm

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Ellen MacArthur Foundation: <https://www.ellenmacarthurfoundation.org>

Doughnut economics. Seven ways to think like a 21St-Century economist. Kate Raworth. Random House 2017. ISBN: 9781847941374

Software

This subject will only 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	Spanish	first semester	afternoon