



## IDENTIFYING DATA

### Environmental auditing and management

|                     |                                       |           |      |            |
|---------------------|---------------------------------------|-----------|------|------------|
| Subject             | Environmental auditing and management |           |      |            |
| Code                | O01G261V01701                         |           |      |            |
| Study programme     | Grado en Ciencias Ambientales         |           |      |            |
| Descriptors         | ECTS Credits                          | Choose    | Year | Quadmester |
|                     | 6                                     | Mandatory | 4th  | 1st        |
| Teaching language   | Galician                              |           |      |            |
| Department          |                                       |           |      |            |
| Coordinator         | Escuredo Pérez, Olga                  |           |      |            |
| Lecturers           | Escuredo Pérez, Olga                  |           |      |            |
| E-mail              | oescuredo@uvigo.es                    |           |      |            |
| Web                 |                                       |           |      |            |
| General description |                                       |           |      |            |

## Training and Learning Results

|      |   |
|------|---|
| Code |   |
| A3   | Students will be able to gather and interpret relevant data (normally within their field of study) that will allow them to have a reflection-based considered opinion on important issues of social, scientific and ethical nature. |
| A4   | Students will be able to present information, ideas, problems and solutions both to specialist and non-specialist audiences.  |
| B1   | Students will acquire analysis, synthesis and information-management skills to be applied in the food and agriculture and environmental sectors   |
| C8   | To be familiar with the different systems of environmental and quality management.  |
| C9   | To be familiar with computing tools for application to environmental issues.  |
| C12  | To be familiar with the fundamentals of management and restauration of the environment.   |
| C14  | To be familiar with the essential concepts of Waste Management Systems.   |
| D1   | Capacity of analysis, organization and planning.  |
| D3   | COral and written communication in the native language and foreign  |
| D4   | Ability of autonomous learning and information management.  |
| D5   | Ability of problem solving and decision making  |
| D9   | Team of interdisciplinary nature  |

## Expected results from this subject

| Expected results from this subject | Training and Learning Results |    |                        |                      |
|------------------------------------|-------------------------------|----|------------------------|----------------------|
| New                                | A3                            | B1 | C8<br>C9<br>C12<br>C14 | D1<br>D3<br>D4<br>D5 |
| New                                | A3<br>A4                      | B1 |                        | D1<br>D3<br>D5<br>D9 |

## Contents

|   |   |
|---|---|
| Topic   |   |
| Approach to environmental management systems. | Topic 1. Introduction to environmental management and environmental management systems. |
|   | Topic 2. Environmental management instruments.  |

Development and implementation of an environmental management system.

Topic 3. Introduction to the ISO 14001 standard and the EMAS regulation.

Topic 4. Basic implications of the implementation of an Environmental Management System.

Topic 5. Requirements of the Environmental Management System.

Integration with quality systems and other tools related to Environmental Management Systems

Topic 6. Key aspects in the integration of Systems.

Topic 7. Life Cycle Analysis.

## Planning

|                                 | Class hours | Hours outside the classroom | Total hours |
|---------------------------------|-------------|-----------------------------|-------------|
| Seminars                        | 26          | 58                          | 84          |
| Lecturing                       | 12          | 30                          | 42          |
| Mentored work                   | 1           | 10                          | 11          |
| Mentored work                   | 1           | 10                          | 11          |
| Problem and/or exercise solving | 2           | 0                           | 2           |

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

## Methodologies

|               | Description   |
|---------------|---|
| Seminars      | Training in the resolution of situations and practical cases.                         |
| Lecturing     | Explanation and discussion in the classroom of each topic.                            |
|               | The master session aims to facilitate the basic training of students in this subject. |
| Mentored work | Proposal for the resolution of practical cases autonomously for students.             |
| Mentored work | (*)Proposta para a resolución de casos prácticos de xeito autónomo para o alumnado.   |

## Personalized assistance

| Methodologies                   | Description  |
|---------------------------------|--|
| Lecturing                       | Through presentation in the classroom and using the Moovi tele-teaching platform, encouraging the active participation of students at all times. |
| Seminars                        | Through individual or group tutoring to carry out practical cases.   |
| Mentored work                   | During tutoring hours individually or in a small group.  |
| Mentored work                   |  |
| Tests                           | Description  |
| Problem and/or exercise solving | During the realization of exercises or activities.   |

## Assessment

|                                 | Description   | Qualification | Training and Learning Results |    |                        |                      |
|---------------------------------|---|---------------|-------------------------------|----|------------------------|----------------------|
| Seminars                        | Assistance and attitude during the realization and quality of the activities carried out. | 10            | A3<br>A4                      | B1 | C8<br>C9<br>C12<br>C14 | D1<br>D3<br>D4<br>D5 |
|                                 | Evaluation of learning results 1 and 2  |               |                               |    |                        | D9                   |
| Mentored work                   | Execution of an Environmental Management System.  | 30            | A3<br>A4                      | B1 | C8<br>C9<br>C12<br>C14 | D1<br>D3<br>D4<br>D5 |
|                                 | Evaluation of learning results 1 and 2.   |               |                               |    |                        | D9                   |
| Mentored work                   | Execution of an Environmental Management System.  | 30            | A3<br>A4                      | B1 | C8<br>C9<br>C12<br>C14 | D1<br>D3<br>D4<br>D5 |
|                                 | Evaluation of learning results 1 and 2.   |               |                               |    |                        | D9                   |
| Problem and/or exercise solving | Issues related to the training provided during the master classes and seminars.           | 30            | A3<br>A4                      | B1 | C8<br>C9<br>C12<br>C14 | D1<br>D3<br>D4<br>D5 |
|                                 | Evaluation of learning results 1 and 2  |               |                               |    |                        | D9                   |

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**Other comments on the Evaluation**

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The continuous evaluation modality will be used as preferred following the sequence of activities proposed. Students who want Global Assessment (100% of the grade in the official exam) must notify the person responsible for the subject, by email or through the Moovi platform, within a period not exceeding one month from the beginning of the teaching of the subject.

It is an essential requirement to achieve at least 50% of the grade in each of the sections: master class and seminars in order to pass the subject.

For the second edition, the partial marks obtained will be maintained, with the exception of the one corresponding to the exam.

The End of Degree call will be a single final exam with a value of 100% of the grade.

Date of exams:

End of Race 09/20/2023 at 4:00 p.m.

1st edition 11/06/2023 at 10 a.m.

2nd edition 07/04/2024 at 10 a.m.

In any case, if the dates of the exams do not coincide with the dates published by the Faculty of Sciences, what is published on its website and on the bulletin board will be valid.

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**Sources of information**

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**Basic Bibliography****Complementary Bibliography**

HEwitts R. & Robinson G., **ISO 14001 EMS manual de sistemas de gestión medioambiental**, 1999

Cortés Díaz, José M., **Técnicas de prevención e higiene ocupacional**,

**Ministerio de medio ambiente**,

**Aranzadi**,

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**Recommendations**

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