

69761 - Circular Economy management

Syllabus Information

Academic year: 2023/24

Subject: 69761 - Circular Economy management

Faculty / School: 100 - Facultad de Ciencias

Degree: 627 - Master's Degree in Circular Economy

ECTS: 6.0

Year: 01

Semester: Second semester

Subject type: Optional

Module:

1. General information

The *Circular Economy Management* subject is designed to understand the tools for the economic management of circular economy. It is designed for students who have social sciences and law degrees and is taught at the University of Zaragoza.

It is aligned with Sustainable Development Goal (SDG) No. 12 (Responsible Production and Consumption) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of its learning results provides training and competence to contribute to some extent to the achievement of the Goal.

2. Learning results

- To be able to make decisions about resource management in circular economy models in terms of gas emissions to the atmosphere, energy losses, wastewater production and waste generation by companies and especially industrial activities.
- To know the tools and applications of different Environmental Management Systems applied to companies, as well as environmental and *cleaner production* audits.
- To be able to formulate new strategies and circular and sustainable business models.
- To be able to discern about the application of the best available environmental technologies and use it for the definition of investment projects in circular models.
- To be able to assess the economic and financial impacts of circular economy investments in companies and organizations.
- To be able to analyse the risks of linear models.
- To understand the impact of sustainable models on financial risk management.
- To be able to manage financial instruments for the development of the sustainable model.

3. Syllabus

PART I

Topic 1. Introduction to the management of circular economy in organizations

Topic 2. Operational management of circular economy in organizations

Topic 3. Strategic management of circular economy in organizations

PART II

Topic 4. Analysis of investments in responsible innovation and eco-innovation projects.

Topic 5. Financial tools and instruments for the development of the circular model.

Topic 6. Analysis and identification of financial risks related to linear vs. circular models

4. Academic activities

Master classes: 16 hours

Sessions of 50 minutes each for the entire group. Teachers explain the theoretical contents and solve representative applied problems. Teaching materials are available in Moodle.

Problem solving and case studies: 44 hours of student work, including 8 face-to-face hours.

Students must prepare reports.

Study: 84 hours

Students must study theory, read supplementary readings and solve problems.

Assessment tests: 6 hours.

Students take a final test of long answer, short answer and/or open-ended questions that includes solving problems and cases.

5. Assessment system

For the first call, students are offered the possibility of a continuous assessment process. To this end, students are assessed in each of the two parts of the program in terms of:

1. Active participation in sessions, forums and other activities scheduled throughout the term and the delivery of several works presented in class: 60% of the final grade.
2. A final multiple choice exam including short answer, long answer and / or open-ended questions including solving problems and cases: 40% of the final grade.

In order to pass the subject through this system, it is necessary that the students hand in all the assignments and reports planned throughout the term within the established deadlines, that they actively participate in the classes and in the activities developed, and that the average weighted grade achieved taking into account the different tests (assignments and final exam) and their relative weights in the evaluation is higher than 5 points out of 10.

Students who do not opt for continuous assessment, do not pass the subject according to this system or would like to improve their grade are entitled to take a global test. In any case the best of the grades obtained will prevail. This global test will be carried out in accordance with the calendar established in the master's schedule and will consist of an exam in which the different topics of the subject will be addressed. In order to pass the subject by this means, the grade obtained in the exam must be higher than 5 points out of 10.

For the second call, the assessment will be global and will consist of an exam in which the different topics of the subject taught will be addressed. In order to pass the subject by this means, the grade obtained in the exam must be higher than 5 points out of 10.

The weighting in the final grade of each of the two parts of the program for each of the assessment methods is always 50%.