Universidad Zaragoza

Academic Year/course: 2022/23

69770 - Suplementary Course in Economics

Syllabus Information

Academic Year: 2022/23
Subject: 69770 - Suplementary Course in Economics
Faculty / School: 100 - Facultad de Ciencias
Degree: 627 - Master's Degree in Circular Economy
ECTS: 3.0
Year: 01
Semester: First semester
Subject Type: ENG/Complementos de Formación
Module:

1. General information

1.1. Aims of the course

The *Economics Supplements* course allows achieving the knowledge and skills on Economics necessary for the adequate follow-up of the compulsory and optional subjects of the Master's Degree in Circular Economy. These approaches and aims are aligned with Sustainable Development Goal (SDG) No. 12 (Responsible Consumption and Production) of the United Nations 2030 Agenda (https://www.un.org/sustainabledevelopment/es/), in such a way that the acquisition of the learning results of the subject provides training and competence to contribute to a certain extent to its achievement.

1.2. Context and importance of this course in the degree

The *Economics Supplements* course is taught in the first months of the teaching of the Master's Degree in Circular Economy. This subject is aimed mainly at graduates of Science and Engineering degrees. The course is taught from the Public University of Navarra.

1.3. Recommendations to take this course

Economics Supplements is a very novel course for Master's students with very little training in Economics. Regular use of the teaching platform and daily study of the concepts presented are recommended, with special emphasis on solving practical activities. Likewise, it is vital to consult the doubts and questions that pose difficulties in the teaching and learning process, for which personalised tutorials should be used.

2. Learning goals

2.1. Competences

BASIC COMPETENCES

CB6 - Have demonstrated knowledge and understanding that is founded upon and extends and/or enhances that typically associated with the first cycle, and that provides a basis or opportunity for originality in developing and/or applying ideas, often within a research context.

CB7 - Can apply their knowledge and understanding, and problem solving abilities in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.

CB8 - Have the ability to integrate knowledge and handle complexity, and formulate judgements with incomplete or limited information, but that include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgements.

CB9 - Can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and nonspecialist audiences clearly and unambiguously.

CB10 - Have the learning skills to allow them to continue to study in a manner that may be largely self-directed or autonomous.

GENERAL COMPETENCES

CG1 - Obtain information in Spanish and English using information technologies efficiently

CG2 - Manage, critically analyse and synthesise information

CG3 - Critically reflect in a systemic way and using causal relationships

CG4 - Formulate, analyse, evaluate and compare in a multidisciplinary way new or alternative solutions for different problems

CG5 - Work in interdisciplinary groups

CG6 - Transmit information efficiently through information and communication technologies

CG7 - Develop management skills (decision making, goal setting, problem definition, design, and evaluation)

CG8 - Properly manage available resources on time

SPECIFIC COMPETENCES

CE1 - Manage the vocabulary and concepts necessary for learning the fundamentals of the Circular Economy.

2.2. Learning goals

The student, passing this subject, achieves the following results:

1. Be able to analyse the impact of the incorporation of innovation and new technologies in the strategy and relate it to the ability to compete globally.

2. Be able to identify the function of each of the company's areas of activity: supply, production and marketing, investment and financing, and human and administrative resources, as well as their interrelationships.

3. Be able to analyse, investigate and apply their knowledge to a specific organisation existing in their environment, identifying advantages and disadvantages, detecting problems, and proposing improvements.

4. Be able to reflect on the importance for society and the company, of research and technological innovation concerning competitiveness and growth.

5. Be able to differentiate the income and general costs of a company, research, and technological innovation concerning competitiveness and growth.

6. Be able to differentiate the income and general costs of a company and identify its profit or loss generated throughout the financial year, applying mathematical reasoning for the interpretation of results.

7. Be able to interpret the correspondence between investments and their financing.

8. Be able to know and list the statistical (payback period) and dynamic (net present value criteria) methods to select and value investments.

9. Be able to explain and assess the financing possibilities of companies, differentiating external and internal financing, in the short and long term, as well as the cost of each one and the implications in the operation of the company, analysing, evaluating, and expressing the options that best suit a specific case of financial need.

2.3. Importance of learning goals

Obtaining the learning results is essential for proper monitoring of the compulsory and optional subjects of the Master in Circular Economy.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

* Written short, long answer and/or development test: 100 %. The test will be held simultaneously at each university under conditions that guarantee the proper identification of students and the impossibility of fraud in them.

The number of official exam sessions to which enrollment entitles (2 per enrollment) as well as the consumption of these calls will be adjusted to the Rules of Permanence in Master's Studies and the Rules of Learning Assessment of the University of Zaragoza (https://ciencias.unizar.es/normativas-asuntos-academicos). To this last regulation, the general criteria for the design of the tests and the grading system will also be adjusted, and according to the same, the time, place and date on which the review will be held when publishing the qualifications will be made public.

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

Learning in this subject is based on the combination of expository method and flipped classroom.

According to the expository method, the professor develops the presentation of the topics before the students present in the same classroom or other universities through videoconference. In addition, other teaching materials will be included in the Moodle platform that will allow dedicating some of the classes to interact with students, posing questions that allow relating concepts.

All these training activities will be supported by tutorials from teachers via videoconference.

The approach, methodology and evaluation of this guide are prepared to be the same in any teaching scenario. They will be adjusted to the socio-sanitary conditions of each moment, as well as to the indications given by the competent authorities.

4.2. Learning tasks

This is a 6 ECTS credits course organised as follows:

- Lectures (1.6 ECTS credits: 16 hours). Whole group sessions of 50 minutes each one will be taken. Lecturers explain the theoretical contents and solve representative applied problems. Learning materials will be available on the virtual platform Moodle (https://moodle.unizar.es/add/course/view.php?id=42048&lang=en). Regular attendance is highly recommended.
- Practice sessions (4.4 ECTS credits: 44 hours, including 8 face-to-face hours).
- Autonomous work and study (8.4 ECTS credits: 84 hours). Students are expected to study theory.
- Assessment tasks (0.6 ECTS credits: 6 hours). A written short, long answer and/or development test will be carried out.

4.3. Syllabus

Block 1. Economic analysis:

1. Microeconomic analysis:
   1.1. Economic agents, decisions, and resources.
   1.2. Demand, supply, and markets. Factor markets and product markets.
   1.3. Functioning of markets, types of competition, market failures, externalities, and public goods.
   1.4. Regulations and taxes.
2. Macroeconomic Analysis:
   2.1. Macromagnitudes.
   2.2. Economic fluctuations and macroeconomic policy
   2.3. Economic growth and sustainable development.

Block 2. The company:

1. The company and the creation of value:
   1.1. Organisation and functional areas of the company
   1.2. Decision-making and governance of the company
2. Information in decision-making:
   2.1. Structure of income and costs of the company
   2.2. Valuation, flows, and stocks.
3. Financial management:
   3.1. Investment and its financing
   3.2. Investment decisions in an environment of certainty
   3.3. Investment decisions in a risky environment.

4.4. Course planning and calendar

Information on schedules, calendar, and exams is published on the Master's page on the website of the Faculty of Sciences of the University of Zaragoza (https://ciencias.unizar.es/master-en-economia-circular). The presentation of reports will be carried out according to the calendar that will be announced in due course through the Moodle page of the subject.

4.5. Bibliography and recommended resources

http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=69750&Identificador=C74175