

25204 - Applied economics

Syllabus Information

Academic Year: 2019/20

Subject: 25204 - Applied economics

Faculty / School: 201 -

Degree: 571 - Degree in Environmental Sciences

ECTS: 6.0

Year: 2

Semester: Second Four-month period

Subject Type: Basic Education

Module:

1.General information

1.1.Aims of the course

The aim of the subject Applied Economics is to provide the student with a series of analytical and graphic economic concepts and tools that make him able to understand the behaviour of individual and global economic agents in their relationship with natural resources and the environment. In this subject, the environmental scientist is provided with environmental economics concepts necessary to acquire the conceptual bases that allow an analysis of the behaviour of the economic system from different approaches and contexts. It should provide the student with skills to interpret the link between environment and economic reality according to theoretical and conceptual frameworks of economic analysis. Specific:

? Understand the basic concepts and terminology commonly used in the relationship between economy and natural resources

? Develop the capacity for analysis and reasoning to interpret and understand economic phenomena

? Learn to work with statistical sources and available economic information, understand their content and analyze and correctly handle the data they contain.

These approaches and objectives are aligned, at least, with one of the Sustainable Development Goals, SDGs of the 2030 Agenda (<https://www.un.org/sustainabledevelopment/en/>) and one of its goals, contributing to its achievement. Specifically:

OBJECTIVE 4: QUALITY EDUCATION

Goal 4.7. By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles.

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

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

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions and autonomous work and study.

4.2.Learning tasks

This course is organized as follows:

- **Lectures.** The fundamental concepts of the topics of the syllabus will be explained by the teacher.
- **Practice sessions.** Two kind of activities will be used:
 - Activities to learn theoretical concepts but with the active participation of the students, because they will apply already acquired knowledge in order to understand new concepts.
 - Resolution of practical exercises.
- **Tutorials** will allow a more direct and personal support to students in order to answer questions about the contents of the course and guide them in their studies and in the resolution of exercises. These tutorials may be individual or in a group.

4.3.Syllabus

This course will address the following topics:

Lectures

Section I. Basic Economics

- Topic 1. What is Economics?
- Topic 2. How markets work. The market. Supply and Demand
- Topic 3. Market structure: Perfect and imperfect competition

Section II. Environmental Economics

- Topic 4. Government failure. Externalities, public goods and natural resources
- Topic 5. Economic growth and environment. Sustainable development
- Topic 6. Environmental Valuation. Revealed preference and declared preferences environmental
- Topic 7. Cost Benefit analysis (CBA) and Cost Efficiency analysis (ACE)
- Topic 8. Environmental policies. Efficiency and equity.
- Topic 9. National accounting and environmental accounting

Practice sessions

Each theory topic has a practical dossier associated which include problems, documents and short texts for analysis and other issues.

4.4.Course planning and calendar

Activities/week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
Classroom activities																						62
Lectures		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						30
Practice sessions		2	2	2	2	2	2	2		2	2	2	2	2	2	2						26
Tutorials								2														2
Exam										2											2	4
Non-classroom activities																						88
Autonomous	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	8	4		88
TOTAL	6	8	8	8	8	8	10	4	8	8	8	8	8	8	8	8	6	6	8	6		150

4.5.Bibliography and recommended resources

- BB** Azqueta Oyarzun, Diego. Introducción a la economía ambiental / Diego Azqueta Oyarzun . 2ª ed. @editorMadrid [etc.] : McGraw-Hill, D.L. 2007
- BB** Krugman, Paul R. Fundamentos de Economía / Paul Krugman, Robin Wells, Kathryn Graddy ; traducción, Alejandro Estruch Manjón ; [versión española traducida por Jimena García-Pardo y Alonso de Ojeda] . 3ª ed. Barcelona [etc.] : Reverté, D.L. 2014
- BB** Labandeira, Xavier. Economía ambiental / Xavier Labandeira, Carmelo J. León, María Xosé Vázquez . [1ª ed.] Madrid [etc.] : Pearson, D. L. 2006
- BB** Manual de economía ambiental y de los recursos naturales / Pere Riera ... [et al.] . 3ª ed. Madrid : Paraninfo, D.L. 2016
- BC** Cueva Martín, Alejandro de la. Fuentes de información en medio ambiente / Alejandro de la Cueva Martín, Francisca Ginés Huertas Valencia : Patronat Sud-Nord. Solidaritat i Cultura- F.G.U.V. : Publicacions de la Universitat de València, 2010
- BC** Fernández-Bolaños Valentín, Antonio. Economía y política medioambiental : situación actual y perspectivas en la Unión Europea / Antonio Fernández- Bolaños Valentín . Madrid : Piramide, 2002
- BC** Mankiw, N. Gregory. Principios de economía / N. Gregory Mankiw ; traducción, Esther Rabasco ; revisión técnica, Gloria Moreno . 6ª ed. Madrid : Paraninfo, D.L. 2012
- BC** Manual de gestión del medio ambiente / Manuel A. Soler Manuel (coordinador) . 1a. ed. Barcelona : Ariel, 1997

The updated recommended bibliography can be consulted in:

<http://psfunizar7.unizar.es/br13/egAsignaturas.php?codigo=25204&Identificador=C70898>