

Academic Year/course: 2021/22

61340 - Econometrics: a Case Study

Syllabus Information

Academic Year: 2021/22

Subject: 61340 - Econometrics: a Case Study

Faculty / School: 109 - Facultad de Economía y Empresa

Degree: 525 - Master's in Economics

ECTS: 3.0

Year: 1

Semester: Second semester

Subject Type: Optional

Module:

1. General information

1.1. Aims of the course

.In order to pass this course, the student must demonstrate knowledge to estimate empirical models, make predictions and be able to interpret these models from an economic point of view.

The course can be understood as an initiation step for the student into the world of research. Given its applied aspect, at the end of the course the student will have several tools that will allow him/her to carry out basic studies on multiple aspects of economics. Therefore, it is a subject that can provide students with very useful elements to carry out all kinds of applied work.

In the context of UNIZAR's commitment to the Sustainable Development Goals (SDGs) included in the United Nations Agenda 2030, it is proposed that the teaching guides include information that makes visible the contribution of each subject to the different SDGs. Given that this issue requires significant reflection, for the 2021-2022 academic year, the incorporation of this information will be optional.

1.2. Context and importance of this course in the degree

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1.3. Recommendations to take this course

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2. Learning goals

2.1. Competences

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2.2. Learning goals

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2.3. Importance of learning goals

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3. Assessment (1st and 2nd call)

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

Course assessment will be onsite. In the case of a new pandemic wave assessment will become partly online or fully online. It should be noted that in any online assessment task the student performance may be recorded, following the regulations described in: https://protecciondatos.unizar.es/sites/protecciondatos.unizar.es/files/users/lopd/gdocencia_reducida.pdf?_

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, student participation, practical activities and autonomous work (preparation of classes, readings, problems). The practical part prevails over the theoretical one.

Computing resources will be used, especially GRET, STATA and GAUSS.

All lectures and seminars will be imparted on site. In the case of a new health emergency caused by the current pandemic all teaching will be moved online.

4.2. Learning tasks

The course includes the following learning tasks:

- Lectures (20 hours): compulsory attendance
- Autonomous work (45 hours): preparation of coursework and assignments, and study
- Presentation and defense of assignments (10 hours): compulsory attendance

4.3. Syllabus

The course will address the following topics:

- Topic 1. Introduction
- Topic 2. Prices, inflation and Exchange rates
- Topic 3. Labour market: structuralist models vs hysteresis
- Topic 4. Economic cycles
- Topic 5. Stochastic convergence
- Topic 6. Public Sector models

4.4. Course planning and calendar

Provisional calendar of dates:

Topic	Dates
Prices, inflation and Exchange rates <ul style="list-style-type: none"> - Persistence - Fractional Integration - Threshold models - STAR models 	2nd week February
Labour market: structuralist models vs hysteresis <ul style="list-style-type: none"> - Structural change - Bai-Perron methodology 	4th week February
Economic cycles <ul style="list-style-type: none"> - Markov-Switching models - Cycle concordance - Cycle dating 	2nd week March
Stochastic convergence <ul style="list-style-type: none"> - Unit root tests - Stationarity tests - Deterministic trends 	4th week March
Public Sector models	2nd week April

<ul style="list-style-type: none">- Cointegration- Error correction mechanism- Johansen methodology	
Presentation and discussion of assignments	May

4.5. Bibliography and recommended resources

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