



1. General information

Course: INTRODUCTION TO ECONOMETRICS
Type: CORE COURSE
Degree: 316 - UNDERGRADUATE DEGREE IN ECONOMICS
Center: 5 - FACULTY OF ECONOMICS AND BUSINESS
Year: 3
Main language: Spanish
Use of additional languages:
Web site:

Code: 53317
ECTS credits: 6
Academic year: 2023-24
Group(s): 10 17
Duration: First semester
Second language: English
English Friendly: Y
Bilingual: N

Lecturer: VICTOR RAUL LOPEZ RUIZ - Group(s): 10 17				
Building/Office	Department	Phone number	Email	Office hours
Facultad de CC EE y EE / 3.09	ECO .ESP. E INT.,ECONOMET. E Hª E INS.EC	926053659	victor.lopez@uclm.es	Tuesday and Wednesday from 8:30 a.m. to 10:30 a.m.

2. Pre-Requisites

It is recommended to have passed the mathematics and statistics subjects.

3. Justification in the curriculum, relation to other subjects and to the profession

The subject of Introduction to Econometrics is included in the third year of the Degree in Economics, as a necessary subject for concepts and econometric models. It constitutes, in this way, the core of the contents of the Econometric discipline.

Its objective is to focus the learning, by the student, on a series of basic concepts of the discipline: the phases of economic research, general typology of economic models, knowledge and management of existing data sources at the macroeconomic. analysis of the

In this way, the subject aims to expand the knowledge and skills of the student that allows the professional construction of models, addressing the different and specific to the economy in the face of complex situations of economic reality, in aspects related to planning

In this way, in Econometrics there is not only a series of methods that must also be taught to work with them in reality, for what it should be complemented with economic theory and with the necessary quantitative information, hence its relation with subjects of the dis

4. Degree competences achieved in this course

Course competences	
Code	Description
E03	Ability to find economic data and select relevant facts.
E05	Ability to contribute to the establishment of strategies which will allow for the efficient allocation of resources, the generation of wealth and a suitable distribution of income.
E06	Application of professional criteria to the analysis of problems, based on the use of technical tools.
E16	Identify relevant sources of financial information and its content, as well as the ability to derive the important information from the data, otherwise completely unknown to non-professionals.
G01	Possession of the skills needed for continuous, self-led, independent learning, which will allow students to develop the learning abilities needed to undertake further study with a high degree of independence.
G03	Develop oral and written communication skills in order to prepare reports, research projects and business projects and defend them before any commission or group of professionals (specialised or non-specialised) in more than one language, by collecting relevant evidence and interpreting it appropriately so as to reach conclusions.
G04	Ability for the use and development of information and communication technology in the development of professional activity.
G05	Capacity for teamwork, to lead, direct, plan and supervise multidisciplinary and multicultural teams in both national and international environments.

5. Objectives or Learning Outcomes

Course learning outcomes
Description
Train the student to work out problems in creative and innovative ways.
Know the tools and methods for the quantitative analysis of the overall economy
Enable student for autonomous work and learning, as well as for personal initiative
Train the student to search for information in order to analyze it, interpret is meaning, synthesize it and communicate it to others.
Additional outcomes
Train the student to manage the sources through ICT, as well as the use of specific software for the modeling of economic reality.

6. Units / Contents

Unit 1: MODELING IN ECONOMETRICS
Unit 1.1 MODELING IN ECONOMY
Unit 1.2 THE METHOD FOR THE CONSTRUCTION OF ECONOMETRIC MODELS
Unit 2: DATA AND ECONOMIC INFORMATION
Unit 2.1 ECONOMIC INFORMATION AND MODELING
Unit 2.2 ANALYSIS OF TIME SERIES IN THE SHORT AND LONG TERM
Unit 3: CONSTRUCTION OF ECONOMETRIC MODELS
Unit 3.1 BASIC REGRESSION MODEL I: SPECIFICATION, ESTIMATION
Unit 3.2 BASIC REGRESSION MODEL II: TEST OF HYPOTHESIS AND FORECAST
Unit 4: EMPIRICAL ECONOMETRICS: APPLICATIONS
Unit 4.1 DEMAND MODELS: CONSUMPTION, INVESTMENT, TRADE
Unit 4.2 SUPPLY MODELS
Unit 4.3 LABOUR MARKET, WAGES AND PRICES MODELS

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	E03 E05 E06 E16 G01 G04	1.2	30	Y	N	
Class Attendance (practical) [ON-SITE]	Cooperative / Collaborative Learning	E05 E06 E16 G01 G03 G04 G05	0.67	16.75	Y	N	
Class Attendance (theory) [ON-SITE]	Combination of methods	E03 E06 E16 G01 G04	0.13	3.25	Y	N	
Writing of reports or projects [OFF-SITE]	Group Work	E03 E05 E06 E16 G01 G03 G04 G05	1.2	30	Y	Y	
Writing of reports or projects [OFF-SITE]	Case Studies	E05 E06 G01 G03 G04	0.56	14	Y	N	
Project or Topic Presentations [ON-SITE]	Combination of methods	G03 G05	0.04	1	Y	N	
On-line Activities [OFF-SITE]	Self-study	G01 G03	0.32	8	Y	N	
On-line debates and forums [OFF-SITE]	Combination of methods	E06 G01 G03	0.32	8	Y	N	
Study and Exam Preparation [OFF-SITE]	Combination of methods	E05 E06 E16 G01 G04	1.44	36	Y	N	
Group tutoring sessions [ON-SITE]	Guided or supervised work	E03 E06 E16 G01 G04	0.04	1	N	-	
Final test [ON-SITE]	Assessment tests	E05 E06 E16 G01 G03	0.08	2	Y	Y	
Total:			6	150			
Total credits of in-class work: 2.16			Total class time hours: 54				
Total credits of out of class work: 3.84			Total hours of out of class work: 96				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation ¹	Description
Theoretical papers assessment	20.00%	0.00%	Group work on the construction of an econometric model applied to an economic reality. Attention will be paid not only to the content, but to the correct use of scientific forms and oral presentation.
Assessment of problem solving and/or case studies	10.00%	0.00%	Individual work. Participation and positive result of the practical sessions, seminars, tutorials, ... Requires a minimum of participation (face-to-face and non-face-to-face via Moodle platform)
Progress Tests	10.00%	0.00%	A similar progress test will be made to the final test.
Final test	60.00%	100.00%	Objective test that is divided into two blocks: theoretical and practical.
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

The evaluation is based on a continuous system in which the effort and progress of the student in the development of a series of competences is valued.

Progress test will be made through practical exercises at the end of the semester.

Individual work through cases for delivery according to the established school calendar. The participation and positive result of the practical sessions, seminars, tutorials will be valued.

Group work: in the evaluation of this work attention will be paid not only to the content, but to the correct use of scientific forms and oral presentation.

Final test, through the development of two blocks: theoretical questions and practical exercises that will be held on the day set for the final exam. To make the average, in the final exam it is necessary to obtain a minimum score of 4 points out of 10 in each one of the parts and five in average.

Non-continuous evaluation:

Specific test for this case, of greater extension, evaluating all the competences and explicitly the one referred to the analysis of the economic reality with the application of econometric models whose weight in the test will be at least 20%
See section b of point 4.2. of the UCLM Student Regulations approved on May 23, 2022.

Specifications for the resit/retake exam:

There is not

Specifications for the second resit / retake exam:

The evaluation will be carried out on a single written test, being necessary to pass the subject a minimum score of 5 out of 10.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Project or Topic Presentations [PRESENCIAL][Combination of methods]	1
On-line Activities [AUTÓNOMA][Self-study]	8
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	1
Final test [PRESENCIAL][Assessment tests]	2
Unit 1 (de 4): MODELING IN ECONOMETRICS	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Class Attendance (practical) [PRESENCIAL][Cooperative / Collaborative Learning]	1
Writing of reports or projects [AUTÓNOMA][Group Work]	4
Writing of reports or projects [AUTÓNOMA][Case Studies]	2
On-line debates and forums [AUTÓNOMA][Combination of methods]	1
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	6
Group 10:	
Initial date: 11-09-2023	End date: 24-09-2023
Group 17:	
Initial date: 11-09-2023	End date: 24-09-2023
Unit 2 (de 4): DATA AND ECONOMIC INFORMATION	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Class Attendance (practical) [PRESENCIAL][Cooperative / Collaborative Learning]	3.75
Class Attendance (theory) [PRESENCIAL][Combination of methods]	2
Writing of reports or projects [AUTÓNOMA][Group Work]	11
Writing of reports or projects [AUTÓNOMA][Case Studies]	4
On-line debates and forums [AUTÓNOMA][Combination of methods]	2
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	10
Group 10:	
Initial date: 25-09-2023	End date: 22-10-2023
Group 17:	
Initial date: 25-09-2023	End date: 22-10-2023
Unit 3 (de 4): CONSTRUCTION OF ECONOMETRIC MODELS	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	11
Class Attendance (practical) [PRESENCIAL][Cooperative / Collaborative Learning]	8
Class Attendance (theory) [PRESENCIAL][Combination of methods]	1.25
Writing of reports or projects [AUTÓNOMA][Group Work]	11
Writing of reports or projects [AUTÓNOMA][Case Studies]	5
On-line debates and forums [AUTÓNOMA][Combination of methods]	2
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	14
Group 10:	
Initial date: 23-10-2023	End date: 26-11-2023
Group 17:	
Initial date: 23-10-2023	End date: 26-11-2023
Unit 4 (de 4): EMPIRICAL ECONOMETRICS: APPLICATIONS	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Class Attendance (practical) [PRESENCIAL][Cooperative / Collaborative Learning]	4
Writing of reports or projects [AUTÓNOMA][Group Work]	4
Writing of reports or projects [AUTÓNOMA][Case Studies]	3
On-line debates and forums [AUTÓNOMA][Combination of methods]	3
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	6
Group 10:	
Initial date: 27-11-2023	End date: 21-12-2023
Group 17:	
Initial date: 27-11-2023	End date: 21-12-2023
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	30
Class Attendance (practical) [PRESENCIAL][Cooperative / Collaborative Learning]	16.75
Class Attendance (theory) [PRESENCIAL][Combination of methods]	3.25
Writing of reports or projects [AUTÓNOMA][Group Work]	30
Writing of reports or projects [AUTÓNOMA][Case Studies]	14
Project or Topic Presentations [PRESENCIAL][Combination of methods]	1
On-line Activities [AUTÓNOMA][Self-study]	8
On-line debates and forums [AUTÓNOMA][Combination of methods]	8
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	36
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	1
Final test [PRESENCIAL][Assessment tests]	2
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Cítr	ISBN	Year	Description
Calderón Milán, López Ruiz y Taracón Morán	Prácticas de econometría	Popular Libros		84-931937-1-3	2001	
Gujarati, Damodar N.	Econometría	McGraw-Hill Interamericana		970-10-3971-8	2004	
Intriligator, Michael D.	Modelos econométricos, técnicas y aplicaciones	Fondo de Cultura Económica		968-16-3140-4	1990	
Maddala, G. S.	Introducción a la econometría	Prentice-Hall Hispanoamericana		968-880-697-8	1996	
Pindyck, Robert S.	Econometría : modelos y pronósticos	McGraw-Hill		970-10-2925-9	2000	
Pulido San Román, Antonio	Modelos econométricos	Pirámide		84-368-1534-3	2001	