Universida_{de}Vigo

Subject Guide 2019 / 2020

IDENTIFYIN	G DATA				
Econometri	cs I				
Subject	Econometrics I				
Code	V03G100V01501				
Study	Degree in				
programme	Economics				
Descriptors	ECTS Credits		Choose	Year	Quadmester
	6		Mandatory	3rd	1st
Teaching	Spanish				
language	English				
Department					
Coordinator	Álvarez García, María Begoña				
	Fernandez-Jardón Fernandez, Car	los Maria			
Lecturers	Álvarez García, María Begoña				
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General	This course is an introduction to r				
description	fields. Students learn how to cond other empirical works.	duct empirical stud	lies, as well as how	to analyze and	l interpret results from

Comp	Competencies			
Code				
C1	Understand the basic mathematical tools required to formalize economic behavior.			
C10	Ability to use technical tools to formulate simple models concerning economic variables.			
D1	Respect civic and ethical values. Strong commitment to work ethic.			
D5	Skill to make coherent and intelligible statements both in oral and written form.			
D7	Critical and self-critical thinking.			

Learning outcomes		
Expected results from this subject	Training and Learnin Results	
Understand basic econometric tools from a theoretical and applied point of view.	C1	
Use of basic tools and procedures to quantify relationships between economic variables.	C1	
	C10	
Ability to use econometric tools for solving economic problems.	C1	D1
	C10	D7
Develop skills to argue and obtain conclusions from empirical evidence.		D5
		D7

Contents	
Topic	
TOPIC 1: Econometric Modeling	Definition of Econometrics. Steps in empirical economic analysis. The structure of economic data
TOPIC 2: The Classical Linear Regression Model	Model specification. Assumptions. Mechanics and interpretation of Ordinary Least Squares. Properties of estimators. Goodness-of-fit. Hypotheses testing. Confidence intervals. Prediction. Dummy variables. Specification and data problems (omitted variable bias; inclusion of irrelevant variables; proxy variables; multicollinearity).
TOPIC 3: Violations of the Classical Assumptions	Analysis, consequences, diagnosis and possible solutions of non- compliance with classical hypotheses (Heteroskedasticiy. Autocorrelation. Stochastic explanatory variables)

Planning

	Class hours	Hours outside the classroom	Total hours
Seminars	5	0	5
Autonomous problem solving	8	20	28
Computer practices	15	30	45
Lecturing	20	30	50
Objective questions exam	2	20	22

^{*}The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Seminars	Interviews with students to solve questions and clarify doubts.
Autonomous problem solving	Students have to solve a sequence of problem sets (homework) that will be distributed regularly during the course. The purpose of this activity it to enhance econometric problem solving capabilities and to encourage students' discussion within the classroom on the solution.
Computer practices	Computer practices are designed to train students to explore a dataset, write code to analyze relationships and to test hypotheses about some economic phenomenon. The course requires use of GRETL, a free econometric software.
Lecturing	Lectures will develop the concepts and methodologies of the subject.

Personalized assistance	
Methodologies	Description
Seminars	Interviews with students to solve questions and clarify doubts.
Autonomous problem solving	Supervision of students' work on the problem sets.
Computer practices Supervision of students' work on the computer-oriented exercises in lab sessions.	
Tests	Description
Objective questions exam	Students may contact the lecturer during the exam preparation if some issues are still unclear. All enquiries about the subject material should be made during office hours or through email.

Assessment					
	Description	Qualification		Training and Learning Results	
Autonomous problem solvir	gProblem sets and tests.	20	C1 C10	D5	
Computer practices	Exercises with real-world data. The course will use the econometric package GRETL.	20	C1 C10	D1 D5 D7	
Objective questions exam	Written exam. Questions will require interpretation of computer output in addition to theoretical topics.	60	C1 C10	D1 D5 D7	

Other comments on the Evaluation

All students are entitled to two examination calls:

- Ordinary call ("Convocatoria ordinaria"), in the teaching semester.
- Extraordinary call ("Convocatoria extraordinaria"), in June/July

In both calls, students may choose between two types of assessment procedures:

- 1. Continuous assessment: coursework (40%) and final exam (60%). A minimum grade in the final exam may be required to pass the course. A high-level performance in coursework may allow students to achieve the maximum grade without doing the exam.
 - 2. Final exam: 100% of the total grade is obtained through a final examination.
- * Only for Spanish students: The assessment in the "Convocatoria Fin de Carrera" will be through final exam.

Exam schedules are available at: http://fccee.uvigo.es

Sources of information

Basic Bibliography

Wooldridge, JM, Introduction to econometrics: A modern approach, 5th, Cengage Learning, 2013

Stock, JH and Watson, MW, Introduction to econometrics, 3th, Pearson, 2015

Fernández-Jardón, C. M, Verdugo, V. Cal, I., **Econometría Estática Aplicada.**, 1, Torculo, 1997

Novales, A., **Econometría.**, 5, McGraw-Hill., 2010

Greene, W.H. ., **Análisis Econométrico**, Prentice-Hall, 1998

Verdugo, M.V., Cal, I., Guía De Introducción A La Econometría Utilizando Gretl, Eumed, 2014

Complementary Bibliography

Dougherty, C, Introduction to econometrics, 5th, Oxford University Press, 2016

Recommendations

Subjects that continue the syllabus

Econometrics II/V03G100V01601

Subjects that it is recommended to have taken before Statistics: Statistics 1/V03G100V01205

Statistics II/V03G100V01403