

14P018

## Topics in Applied Econometrics for Public Policy

Spring Term - 6 ECTS

Mandatory Course

Prof. Jaume García-Villar

### Prerequisites to Enroll

Quantitative and Statistical Methods I or any other course with similar contents.

### Overview and Objectives

This course provides some extensions of the econometric methods discussed in Quantitative and Statistical Methods I and II. The emphasis is on the empirical application of these techniques to analyze public policy issues using real data and the econometric package *Stata*.

#### *Objective of the course*

To emphasize the importance of the choice of the adequate econometric techniques depending on the model we specify and the data we use to estimate that model.

To pay special attention to the interpretation of the estimation results by using empirical exercises.

### Course Outline

1. Multinomial discrete choice models (I). Multinomial Logit and extensions
2. Multinomial discrete choice models (II). Other specific models and panel data
3. Limited dependent variables models (I). Tobit model
4. Limited dependent variables models (II). Extensions and count data models
5. Duration models

### Required Activities

Practical exercises with real data using *Stata*, expected to be done in groups of 2-3 people.

### Evaluation

Assignments (25%), exam (75%). To pass the course the student should obtain a minimum of 50 out of 100 points with a minimum of 30 points from the exam.

### Competences

■ To work within a heterogeneous team of researchers as economic analyst using specific group techniques.

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■ To possess and understand the knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.

■ That students know how to apply the acquired knowledge and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.

■ That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.

■ To identify and apply the insights of the theory, the models, and the analytical tools of modern economy to its global dimension.

■ Understand and apply the Economic Theory and statistical models of the design of the evaluation of public policies.

■ Understand and apply the quantitative methods used to solve complex problems of the economy.

■ Evaluate, with theoretical and quantitative instruments, complex realities of the economy to understand its functioning.

### Learning Outcomes

■ Applies the empirical tools of economic analysis to evaluate public policies.

### Materials

- Jones, A., *Applied Econometrics for Health Economists: A Practical Guide*, Radcliffe Publishing, 2007 (basic)
- Jones, A., Rice, N., Bago d'Uva, T. and Balia, S., *Applied Health Economics*, Routledge, 2013 (basic)
- Greene, W.H., *Econometric Analysis*, Prentice Hall, 2008 (intermediate)
- Cameron, A.C. and Trivedi, P.K., *Microeconometrics. Methods and Applications*, Cambridge University Press, 2005 (advanced)