

PhD in Economics and Management 2016-2017

MICROECONOMETRICS

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OBJECTIVES

The course aims at introducing students to the econometric analysis of cross-section and panel data, with a specific focus on methods for drawing causal inference from observational data.

COURSE EVALUATION

All students will take a written examination. Additional marks will be awarded to students who present selected papers in front of the class at the end of the course.

TOPICS

A) Causal inference

1. Causality, potential outcomes, and causal parameters. The “gold standard” of randomization
2. Selection on observables: regressions, matching estimators and the propensity score
3. Instrumental variables: constant and heterogeneous treatment effects
4. Regression discontinuity designs
5. Difference – in – differences models

B) Panel data models

1. Static linear panel data models
2. Dynamic linear panel data models

C) Discrete choice models

1. Binary choice models: LPM, probit and logit models
2. Limited dependent variables: tobit and Heckman selection models
3. Count data, multinomial and ordered response models.

REFERENCES

Angrist, J. D. and Pischke J.S. (2009). *Mostly Harmless Econometrics*

Arellano M. (2003) *Panel Data Econometrics*

Cameron, A. Colin and Pravin K. Trivedi (2005). *Microeconometrics*

Greene, William (2010). *Econometric Analysis*, seventh edition

Wooldridge, Jeffrey M. (2010) *Econometric Analysis of Cross Section and Panel Data*, second edition