Libera Università Internazionale
degli Studi Sociali Guido Carli

LUISS

Syllabus – PhD in Management

Anno Offerta / Academic Year	2024
Corso di Studio / PhD	PhD in Management
Insegnamento/Modulo	Econometrics II
Periodo Didattico /Term	
Anno Corso / Year of the course	2025
Settore	
CFU	
Ore Attività Frontali / Total Hrs	

Tipo Testo	Testo in Italiano/Inglese
OBIETTIVI/LEARNING GOALS	
	Conoscenza e comprensione/ knowledge and understanding: Upon completing this course students should be able to: • Show insights on core Stata approaches to econometric analysis. • Display basic knowledge of Stata programming and why programming may be a better option than pointing a clicking to the econometric investigation. • Express an understanding of differences between the taught models • Debate the limitation of econometric modelling in general and of the taught models
	Capacità di applicare conoscenza e comprensione/ Applying knowledge and understanding: • Apply key econometric models to real cross-sectional data. • Understanding of the type of model to apply given characteristics of the data and what the researcher wishes to achieve. • Interpretation of taught econometric models • Analytically assess and adjust models given potential shortcomings.
RISULTATI DI APPRENDIMENTO ATTESI/ INTENDED LEARNING OUTCOMES	Autonomia di giudizio/ making judgements: • Assess econometric outcomes and results. • Judge the validity of applied econometric models. • Judging the econometric models of others – e.g. reviewing econometric work for journals • Evaluating econometric outcomes through marginal effects and when that is particularly appropriate.
	Abilità comunicative/ communication skills: • The ability to present econometric evidence verbally. • The ability to present econometric evidence in written form. • Identify key econometric statistics given the taught model that should be communicated in papers and other research outlets.
	Capacità di apprendimento/ learning skills: • The capability to run and carry out reliable and sensible econometric studies. • The capacity to identify the major potential shortcoming of various model apriori running an analysis against a given dataset. • Being able to account for the reasons behind the taught models and their applicability. • Master at a reasonable level the vocabulary of applied econometric analysis.
PREREQUISITI / ENTRY REQUIREMENTS	• Completed a basic course on econometrics • Completed a course including regression techniques and specifically OLS regression

CONTENUTI DEL CORSO / COURSE CONTENTS	Session 1: Logits, Ordered Logit and Multinomial Logits
	    Readings:
	    • Long, J. S. & Freese, J. (2006), *Regressions Models for Categorical Dependent Variables Using Stata*, 2nd Edition, Stata Press chapter 6 & pages 223-272

- Reichstein, T. & Salter, A. J. (2006), Investigating the Sources of Process Innovation among the UK Manufacturing Firms, Industrial and Corporate Change, 15(4), pp. 653-682

Session 2: Exercises in Logits, Ordered Logits, and Multinomial Logits

Session 3: Count Models and Zero-Inflated Count Models
    Readings:
- Long, J. S. & Freese, J. (2006), **Regressions Models for Categorical Dependent Variables Using Stata**, 2nd Edition, Stata Press Chapter 6 & pages 349-381 & 394-415
- Wooldridge, J. M. (2009), **Introductory Econometrics - A Modern Approach**, International Student Edition, 4th Edition, South Western, pages 595-600

Session 4: Exercises in Count Models and Zero-Inflated Count Models

Session 5: Attrition and Selection Models
    Readings
- Wooldridge, J. M. (2009), **Introductory Econometrics - A Modern Approach**, International Student Edition, 4th Edition, South Western, pages 606-613

Session 6: Exercises in Attrition and Selection Models

Session 7: Endogeneity and Instrumental Variables Regression
    Readings
- Wooldridge, J. M. (2009), **Introductory Econometrics - A Modern Approach**, International Student Edition, 4th Edition, South Western, pages 506-520
- Guilhem, B. (2008), Controlling for Endogeneity with Instrumental Variables in Strategic Management Research, **Strategic Organization**, 6(3), pp. 285-327
- Hamilton, B. H. & Nickerson, J. A. (2003), Correcting for Endogeneity in Strategic Management Research, **Strategic Organization**, 1(1), pp. 51-78

Session 8: Exercises in Endogeneity and Instrumental Variables Regression

Session 9: Extensions and Other Consideration – Q&A Before Exam

Exam

TESTI DI RIFERIMENTO / REFERENCE BOOKS	....
METODOLOGIE DIDATTICHE/ TEACHING METHODS	• Formal theoretical foundation of taught regression techniques • Illustration with examples of studies using the taught techniques. • Exercises with real life and artificial datasets • Student presentations of solutions of exercises
MODALITÀ DI VERIFICA E DI ACCERTAMENTO DELL'APPRENDIMENTO/ DETAILED DESCRIPTION OF ASSESSMENT METHOD	Students take a four-hour written exam consisting of exercises mirrored in the exercises done during the course. The exam exercises may thus involve providing a hypothetical example where the student would use a specific regression technique and specified in the exam assignment, or it may encompass offering a econometric analysis of data provided for the exam. Students must run an econometric investigation which allow them to answer accompanying research questions. The hand-in of the exam is the investigation carried out in STATA and an accompanying text explaining their choices and interpretation of results.) **Evaluation criteria of assignment** – The Academic Grading System valid in US is used for the evaluation of the students: an 'A' grade requires deep reflections, critical insights, and effective analysis; a 'B' grade requires understanding of course materials, clear and logical thinking. Lower grades mean that students lack these requirements. **Late assignment policy** – Students must appreciate assignment due dates as proper deadlines. Barring serious problems, late assignments will be marked down. **Final Grades Releasing**– Final grades with specific feedback on attendance/participation and performance will be release to each student via email within one month from the due date of the Final Assignment.