

COURSE OF STUDY *ESMI*

ACADEMIC YEAR *2023-2024*

ACADEMIC SUBJECT *Financial Econometrics (Econometria Finanziaria)*

General information	
Year of the course	<i>II</i>
Academic calendar (starting and ending date)	<i>II semester</i>
Credits (CFU/ETCS):	<i>6 CFU</i>
SSD	<i>SECS P05</i>
Language	<i>Italian</i>
Mode of attendance	<i>Facultative</i>

Professor/ Lecturer	
Name and Surname	<i>Stefania Basiglio</i>
E-mail	<i>stefania.basiglio@uniba.it</i>
Telephone	-
Department and address	<i>DiEF Department 2° Floor</i>
Virtual room	-
Office Hours (and modalities: e.g., by appointment, on line, etc.)	<i>Tuesday 14-16 (by appointment via email)</i>

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<i>150</i>	<i>42</i>		<i>108</i>
CFU/ETCS			
<i>6</i>			

Learning Objectives	<i>The course aims to provide an introduction to econometrics by analysing the main econometric models fundamental for the analysis of causal effects between economic variables</i>
Course prerequisites	<i>Basic elements of inference, statistical probability and matrix algebra</i>

Teaching strategies	<i>Lectures and exercises (using computer software such as R and/or Gretl)</i>
Expected learning outcomes in terms of	
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ Understanding of econometric analysis methods; ○ Knowledge of estimation methods for linear and non-linear functions
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ Mastery of basic analytical and conceptual instrumentation
Soft skills	<ul style="list-style-type: none"> ● <i>Making informed judgments and choices</i> <i>Ability to analyse and interpret economic and financial data</i>
Syllabus	
Content knowledge	<i>Statistical analysis of economic and financial relations. The phases of the construction of the econometric model</i>

	<p><i>The linear regression model.</i> <i>The estimation of the linear regression model: linear model classical and generalized linear model.</i> <i>Financial applications.</i> <i>Introduction to diagnostic analysis.</i> <i>Historical series analysis</i></p>
Texts and readings	<p><i>Stock, J.H., Watson, M.W., Introduzione all'Econometria 5/Ed, Pearson.</i> <i>Verbeek, M. (2000), Modern Econometrics, Wiley.</i> <i>Gardini, A., Fanelli, L., Cavaliere, G., Costa, M, Econometria, Vol 1°, Franco Angeli Editore Milano.</i> <i>Campbell, J.Y., Lo, A.W., MacKinlay, A. C. (1997), The Econometrics of Financial Markets, Princeton University Press, Princeton.</i> <i>Sergio Pastorello, Rischio e rendimento. Teoria finanziaria e applicazioni econometriche, il Mulino, 2001.</i></p>
Notes, additional materials	-
Repository	<i>Moodle and/or personal webpage</i>

Assessment	
Assessment methods	<p><i>Written test with open questions.</i> <i>If possible, a short bonus exercise is expected to be carried out on R with the possibility of earning up to 3 bonus points (valid for the 23/24 academic year) in addition to the mark obtained in the exam.</i> <i>Enrolment through the Esse3 system is mandatory and any students who are not regularly enrolled will not be admitted.</i></p>
Assessment criteria	<p><i>At the end of the course, the student will have to</i></p> <ul style="list-style-type: none"> <i>• demonstrate a thorough understanding of notations and concepts used in econometrics;</i> <i>• be able to read and understand articles related to economic research;</i> <i>• be able to interpret and understand the results of analyses produced by others and be able to carry out their own.</i>
Final exam and grading criteria	<p><i>The final mark is given out of thirty. The exam is considered passed when the grade is greater than or equal to 18.</i> <i>If possible, a short bonus exercise is expected to be carried out on R with the possibility of earning up to 3 bonus points (valid for the 23/24 academic year) in addition to the mark obtained in the exam.</i></p>
Further information	