Module code	FIN7F6	Level	7
Module title	Financial Econometrics	Credit value	10
Common/Core/Elective	Core	ECTS Credits	5
		Notional learning hours	100
Courses on which the module is taught	MSc Finance, Investment and Wealth Management MSc Finance and Financial Technology MSc Finance and Private Equity MSc Finance and Real Estate Investment	Teaching Period	Spring/Autumn

1. Module description

This module introduces you to the fundamental concepts of econometrics and its usefulness in analysing financial data by applying relevant financial empirical models. It is designed to give you a deep understanding of why econometrics is necessary and to enable you to work with basic econometric tools and illustrate their application in finance. Furthermore, proper implementation of statistical tools and correct interpretation of the results are fundamental for having a professional career in the financial sector. For this goal, and following on the basic statistical and quantitative techniques covered in the quantitative research methods for finance this module aims to offer you the necessary knowledge to master (i) the fundamental idea and basic theories of estimation and statistical inference, (ii) a variety of estimation methods that are useful for analysing financial data, and (iii) the practical skills of implementing these methods using statistical software such as Eviews, Stata or equivalent.

The aims of this module are:
- To provide you with an understanding of econometric and statistical methods for analysing time series by building on skills and knowledge already acquired.
- To familiarize you with modern statistical and econometric software in order to use these models and techniques.
- To provide you with a solid theoretical and practical foundation for interpretation of empirical evidence in Finance or Economics,
- To enable you to undertake independent work on a topic in economics or finance using econometrics methods.
- To offer you the opportunity to develop transferable key skills, like analysis, to critically assess empirical findings reported in the finance literature and to write down reports of findings.

- To help you carry out your own empirical research in the future.

2. Learning outcomes

Decision-making (LO4):
Formulate informed decisions based on econometric models in complex financial situations using critical thinking.

Communication (LO5):
Communicate a set of results derived from an econometric analysis persuasively in the form of a professional report to a community of international practitioners and/or academics.

Discipline Skills (LO8)
Combine and employ advanced econometric analysis and predictive models to justify the analytics of various economic and financial data.

3. Learning and teaching methods

Learning for this module will be achieved through interactive workshops coupled with self- guided learning. These sessions will introduce you to concepts and techniques illustrated with practical and current examples. You will also be expected to participate in class discussions and work through examples and exercises with the support of the lecturer. Also, there will be regularly scheduled computer labs. These sessions are intended to demonstrate the use of the econometric package EViews and its practical implementation.

Learning hours	
Directed learning	**24 hours**
Workshops/classes	24
Guided/Self-guided learning	**76 hours**
Total	100

4. Assessment, formative feedback and relative weightings

Assessment 1 – Project
Weight (%): 100%
Word Count or Equivalent: 2500 words

You are required to employ complex econometrics techniques to analyse complicated data to address a given research question and achieve set of objectives. You will be expected to justify the proposed econometrics model, the choice of data set, conduct computations correctly, and demonstrate clear ability to use econometrics software effectively leading to rational analysis and conclusions.

Summative assessment will be preceded by an opportunity to make a formative submission that will be followed by formative feedback.

Assessment tasks	LO4	LO5	LO8
Project	X	X	X

5. Indicative resources

Required Reading

Brooks, C. (2019). Introductory Econometrics for Finance (4th ed.). Cambridge: Cambridge University Press. Doi:10.1017/9781108524872

Jeffrey M. Wooldridge (2019), Introductory Econometrics – A modern approach, 7th Edition, Cengage, ISBN: 9781337558860

Barrow, M., (2017), 'Statistics for Economics, Accountancy and Business Studies', 7th Edition, Longman.

Thomson Reuters Eikon Platform: www.eikon.thomsonreuters.com