



**LISBOA  
SCHOOL OF  
ECONOMICS &  
MANAGEMENT**

## **FINANCIAL ECONOMETRICS**

Master in Mathematical Finance

Master in Monetary and Financial Economics

### **PROGRAMME**

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## **AIMS AND OBJECTIVES**

In this course, we introduce some statistical tools useful for analyzing financial and economic time series. At the end of the course, students should be able to understand basic characteristics of financial data, linear models for handling serial dependence of the series, and modeling and forecasting the conditional variance of a financial time series.

## **PROGRAMME**

- Empirical features and stylized facts of financial time series
- Linear models for time series analysis
- Conditional heteroscedasticity models
- Financial applications with EViews

## **BIBLIOGRAPHY**

- Wei, W.W.S. (2006): *Time Series Analysis: Univariate and Multivariate Methods*, 2nd Edition, Addison Wesley.
- Tsay, R. (2010): *Analysis of Financial Time Series*, 3rd Edition, Wiley.
- Mills, T. C. (1999): *The Econometric Modelling of Financial Time Series*, 2nd Edition, Cambridge University Press.
- Taylor, S. (2005): *Asset Price Dynamics, Volatility, and Prediction*. New Jersey: Princeton University Press.
- Taylor, S. (2008): *Modelling Financial Time Series*, New Jersey: World Scientific.

## **ASSESSMENT**

Group case study (50%) and an individual test (50%)

## **CONTACTS**

Service to students (Tuesday, 19h45-20h30, Office 301, Piso 3, Quelhas)

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## **IMPORTANT DATES**

Completion and delivery of group case study: 6/8/2015

Discussion of group case study: date and room to be announced