

ECONOMETRIC ANALYSIS OF PANEL DATA

COURSE CODE: ECM 9005

COURSE OVERVIEW

This course is of an applied nature and focuses on hands-on experience in estimation, interpretation and evaluation of economic relationships, within a panel data context. The course covers techniques applicable to both stationary and non-stationary panel data sets, and includes an introduction to both one-way & two-way error component models (either including individual-specific and period-specific effects or both). Hypothesis testing – including tests for fixed and random effects, specification, serial correlation and heteroscedasticity tests as well as a discussion on the correction thereof. Seemingly unrelated regressions are also discussed, along with topics specific to non-stationary panel data such as unit root testing, estimation non-stationary panels and cointegration.

BENEFITS OF ATTENDING

At the end of the course, you will:

- ✓ Estimate regression models for data organised in a panel
- ✓ Deal with violations of the basic assumptions of regression analysis.
- ✓ Be able to apply the techniques of unit root testing and cointegration in the case where the panel contains unit roots.

COURSE OUTLINE

- Review of Time Series Econometrics
- Introduction to Panel Data Analysis
- Stationary Panel Data
- One-way & two-way error component model
- Hypothesis testing
- Heteroscedasticity and serial correlation
- Seemingly unrelated regression (SUR) models
- Non-stationary Panel Data
- Unit root tests
- Estimation of non-stationary time series
- Cointegration tests

APPLICATION SOFTWARE

Econometric Views (EViews version 8)

PRERESQUITE

Applied Time Series Econometrics Modelling

WHO SHOULD ENROL?

Delegates are expected from research and policy department of Central Banks, Commercial Banks, Mortgage Banks, Multinational donor agencies and other government departments such as National Planning & Finance.

COURSE STRUCTURE

Delegates will attend this 1 week course between 09:00 and 17:00 daily. London, UK