EC976-15 Econometrics

26/27

Department
Economics
Level
Taught Postgraduate Level
Module leader
Thomas Martin
Credit value
15
Module duration
10 weeks
Assessment
Multiple
Study location
University of Warwick main campus, Coventry

Description

Introductory description

EC976-15 Econometrics for MSc Finance Economics

[Module web page]

Module aims

Administered by WBS. The aim of this module is to provide a thorough training in econometrics with an emphasis on empirical modelling of economic and financial data. Students will develop the necessary skills to enable them to carry out good quality empirical research. This module is a postgraduate level treatment of econometrics. The emphasis throughout is on the application of standard techniques.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

The module will typically cover the following topics:

Part 1 focuses on microeconometrics and covers: Introduction to correlation vs. causation; OLS, estimation and inference. Dealing with unobservable characteristics; randomised control trials; instrumental variables; regression discontinuity design; differences-in-differences.

Part 2 focuses on macro and financial time series econometrics and covers: univariate time series models: autoregressive moving average models (ARMA). Model selection, diagnostic tests and forecasting. Dynamic models with stationary variables: distributed lag models and autoregressive distributed lag models (DL and ADL). Nonstationary variables: trends and unit root processes. Cointegration analysis and error correction models.

Learning outcomes

By the end of the module, students should be able to:

- Subject knowledge and understanding By the end of the module the students will have a deeper and broader knowledge of material needed for empirical quantitative analysis The teaching and learning methods that enable students to achieve this learning outcome are: Series of lectures and tutorials The summative assessment methods that measure the achievement of this learning outcome are: Examination and written assignment.
- Cognitive Skills Develop critical insight to appraise econometric results obtained by other researchers. Develop that habit of thought, knowledge and understanding to be able to carry out good quality applied econometric research with confidence and authority. The teaching and learning methods that enable students to achieve this learning outcome are: Class discussions, lectures, topic specific readings. Tutorial discussions and readings of journal articles. Data collection and replication of results. The summative assessment methods that measure the achievement of this learning outcome are: Examination and written assignment.
- Key skills Developed key skills through class discussions, weekly exercises and tutorials. Have a deeper and broader knowledge and understanding of material needed for empirical quantitative analysis. The teaching and learning methods that enable students to achieve this learning outcome are: Series of lectures and tutorials.Series of lectures and tutorials The summative assessment methods that measure the achievement of this learning outcome are: Examination and written assignment.

Indicative reading list

Reading lists can be found in Talis

Specific reading list for the module

Subject specific skills

No subject specific skills defined for this module.

Transferable skills

No transferable skills defined for this module.

Study

Study time

Type	Required
Lectures	20 sessions of 1 hour (13%)
Seminars	10 sessions of 1 hour (7%)
Private study	120 hours (80%)
Total	150 hours

Private study description

Private study will be required in order to prepare for seminars/classes, to review lecture notes, to prepare for forthcoming assessments, tests, and exams, and to undertake wider reading around the subject.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group D5

	Weighting	Study time	Eligible for self-certification
Attendance	10%		No
Centrally-timetabled examination (On-campus)	90%		No

A paper which examines the course content and ensures learning outcomes are achieved.

- Answerbook Pink (12 page)
- Students may use a calculator
- Economics dept. statistical tables (yellow/ red)

Assessment group R

	Weighting	Study time	Eligible for self-certification
Resit examination	100%		No

A paper which examines the course content and ensures learning outcomes are achieved.

- Answerbook Pink (12 page)
- Students may use a calculator
- Economics dept. statistical tables (yellow/ red)

Feedback on assessment

Feedback via myWBS

Past exam papers for EC976

Availability

Courses

This module is Core for:

- Year 1 of TIBS-LN1J Postgraduate Taught Finance and Economics