

Module Code	ECS3006
Module Title	Applied Econometrics II
Level	6
Credit	30
Owning Subject	Economics
Level Restrictions	

Aims

The purpose of this module is to review elements of statistical/econometrics from a practical and intuitive viewpoint. In addition, it covers new topics on advanced time series, forecasting, binary choice models, count data model, instrumental variables in panel data models and selection methods, such as the bayesian model averaging. Students should be able to recognise data problems, specify and estimate econometrics model for policy analysis and being able to undertake empirical research individually and independently. They will also have the opportunity to learn econometrics package “R” in the computer labs.

Learning Outcomes

Knowledge

On completion of this module the successful student should be able to:

1. analyse economic cross-sectional, time-series and panel data;
2. demonstrate an understanding of advanced issues in regression theory;
3. use specialised econometric software and data sets to examine economic relationships;

Skills

This module will call for the successful student to be able to:

4. specify and estimate econometric models for policy analysis and forecasting;
5. illustrate the skills needed to undertake empirical research individually and independently;
6. apply theoretical knowledge in the field to real world problems.

Syllabus

- Review of the Classical linear regression model
- Time series econometrics, stationarity and cointegration
- Logit/Probit models
- Count data models
- Endogeneity and instrumental variable estimation
- Instrumental variable in panel data models
- Propensity score matching
- Policy evaluation
- Bayesian model averaging (BMA)

Learning, Teaching and Assessment Strategy

Each week students are required to attend:

1. One hour lecture. The lecture will provide a rigorous examination of econometric

theory and a critical evaluation of the empirical literature employing econometric methods. The lectures will provide a framework to facilitate students' individual study by using a large selection of examples and case studies, next to formal theoretical issues.

2. One hour computer laboratory for application of econometric techniques using data and econometric software. Computer labs will place strong emphasis on the application of econometric techniques and therefore develop computational skills and diagnostic testing. Real datasets will be used for all lab exercises. Summative short quizzes of 15 minutes duration will be conducted at regular intervals throughout the year during lecture or seminar sessions. This will form part of the learning and teaching as students will get into the habit of revising their learning materials at bitesize whilst clearing up any doubts about the materials that has been covered with the immediate feedback given to them straight after the quizzes.

Assessment

Formative Assessment

Formative assessment and feedback will take place during lectures and computer labs. Students are expected to solve practical exercises and to give short presentations during lecture and lab sessions. Lab sessions will give students the opportunity to apply the econometric models and techniques introduced during lectures to real world data and interpret the results. One-to-one consultation with lecturers is available during office feedback hours.

Summative assessment

5. Weeks 2-10: Quizzes once every three weeks, each worth 5% to assess learning outcomes 1 & 2.
6. Weeks 12-24: Quizzes once every three weeks, each worth 5% to assess learning outcomes 1, 2, 4 & 6.
7. A coursework, worth 20%, to be submitted in week 18 to assess learning outcomes 3, 5 & 6.
8. A two-hour unseen examination, worth 50%, to assess students' overall understanding of the subject matter and their applications. The examination will assess the entire syllabus, addressing learning outcomes 1, 2, 4 & 6.

An overall grade of 40% or better is required to pass the module.

Assessment Weighting

Quizzes: 30%; Course work: 20%; Unseen Examination: 50%

Exam Duration

Examination, 2 hours

Learning Materials

Your online reading lists can be accessed from the My Study area of UniHub. They highlight essential and recommended reading for all modules you are registered on.

MODULE RUNS

Module Leader	Future Academic Year	Term	Campus	Part of Term	Start/End Dates	Max Nr of Students
	2018/ 2019	Autumn	HEN- Hendon Campus	AY- Academic Year	12-OCT- 18 / 03- MAY-19	199
	2019/ 2020	Autumn	HEN- Hendon Campus	AY- Academic Year	07-OCT- 19 / 11- APR-20	199
	2020/ 2021	Autumn	HEN- Hendon Campus	AY- Academic Year	05-OCT- 20 / 09- APR-21	199
	2021/ 2022	Autumn	HEN- Hendon Campus	AY- Academic Year	05-OCT- 21 / 09- APR-22	199
	2022/ 2023	Autumn	HEN- Hendon Campus	AY- Academic Year	03-OCT- 22 / 10- APR-23	199