Econometrics II | ECP77002

Year	1
ECTS Credits	10
Contact Hours	20 hours of lecturers and 18 hours of workshops
Pre-Requisite	Econometrics I
Semester	2
Module Leader and Lecturer	Professor Martyna Marczak
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Module Outline:
The aim of this module is to provide students with the skills required to undertake independent applied research using modern econometric methods. The course builds on the fundamental concepts developed in Module I and aims to extend students' understanding of the subject to a more advanced level. The course attempts to provide a balance between theory and applied research.

There will be a two-hour workshop held in each week of term to instruct students in the use of Stata and to assist students in the preparation of their term project.

Topics Covered Include:

1. Stationary time series
2. Unit roots and cointegration
3. Simultaneous equations models
4. VAR
5. Panel VAR models

Module Learning Outcomes:
Students attending this module will deepen their theoretical knowledge of a range of topics in econometrics and develop the necessary practical skills to estimate their own macroeconomic models. The workshops accompanying lectures will instruct students in the use of econometrics software necessary for applied work.

Assessment:
Assessment for the module consists of a final exam accounting for 50% of the grade. For the remaining 50%, students will have to complete homework exercises worth 30%, and to undertake one individual project making worth 20%.

Recommended Reading List:
The core texts for this course are:

- Baum, C. F. (2006), An Introduction to Modern Econometrics using Stata. Stata Press
- Davidson, R. D. and MacKinnon J. G. (2004), Econometric Theory and Methods, Oxford University Press.
- Enders, W. (2014), Applied Econometric Time Series, Wiley.
- Greene, W. (2008), Econometrics Analysis, Pearson.
- Harvey, A. C. (1993), Time Series Models, Pearson Education.
- Pevalin, D. and Robson, K. (2009), The Stata Survival Manual. McGraw Hill.
- Verbeek M. (2004), A Guide to Modern Econometrics, 2nd Edition. Wiley.
- Wooldridge, J. M. (2010), Econometric Analysis of Cross Section and Panel Data, 2nd edition, MIT Press.
- Hayashi, F. (2000), Econometrics, Princeton University Press.
- Lütkepohl H. (2005), New Introduction to Multiple Time Series Analysis, Springer.
- Hamilton, J.D. (1994), Time Series Analysis, Princeton University Press.