Time Series

Module Code: ECO00041M  Credits: 10  Term: 1

Contact Hours: 14 one-hour lectures, 4 one-hour seminars and 3 one-hour PC practicals.

Module Organiser: Professor Y. Shin

Overview:
The module introduces the specification and estimation of linear time series models. We are mostly concerned with covariance-stationary series, though towards the end of the module we will examine the implications of relations between non-stationary series possibly in a system context.

Aims:
To provide an introduction to the statistical analysis of data observed at regularly spaced points in time, as arise in many areas of economics, finance, and more widely.

Objectives:
On completing the module a student will be able to:

- understand the main properties of the leading class of models used for studying time series;
- demonstrate a general understanding how to develop model formulation, specification and estimation in time series econometrics;
- evaluate basic econometric models and critically interpret the existing empirical literature;
- carry out an independent empirical analysis from collecting the data, estimating econometric specifications to writing a self-fulfilling report;
- approach the more advanced time series methods.

Assessment:
Assessment will be based on two in-course exercises (each 10%), one mini empirical project (10%) and two-hour unseen examination (70%) at the start of the Spring Term.

Formative work:
Problem sheets and the project topic will be distributed, all of which will be graded, contributing to the final grade.

Co-requisites:
Econometrics 1 (ECO00013M), Topics in Financial Econometrics (ECO00042M) and/or Econometric Methods for Research (ECO00044M) must also be taken.

Main References:
The primary source will be the lecture handouts available at Yorkshare VLE.

Any change will be updated on VLE. Please check for any announcement or change on a regular basis.