1. **Title of the module**

BUSN8014 (CB8014) Financial Econometrics

1. **Division or partner institution which will be responsible for management of the module**

Kent Business School

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 7

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTs)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Spring

1. **Prerequisite and co-requisite modules**

None

1. **The course(s) of study to which the module contributes**

MSc Finance

1. **The intended subject specific learning outcomes.  
   On successfully completing the module students will be able to:**

8.1 Demonstrate a comprehensive understanding of the major econometric methods.

8.2 Demonstrate a comprehensive understanding of the application of traditional regression as well as the recent and on-going time series econometric techniques.

8.3 Critically appreciate the various concepts and principles under which financial models are constructed, estimated, tested, forecasted and simulated.

8.4 Use subject knowledge to analyse the problem and provide a reasoned response to that problem in the context of Finance, Accounting, Financial Economics and Business Studies.

8.5 Critically interpret the econometric results by relating them to theoretical, institutional, structural and policy framework of the financial firms, industries, government, institutions and international organisations under review with a view to make statistical results plausible as well as appealing to the investors, practitioners and policy makers.

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**

9.1 Develop and define complex arguments and provide critical insights on the practical financial, business, institutional and policy problems using appropriate financial models to estimate, test, evaluate, forecast and simulate theories and hypotheses.

9.2 Read, critically summarise and evaluate transactions and economic events related to financial management and derivative securities.

9.3 Apply numerical skills to solve complex numerical problems.

9.4 Locate, extract, and critically analyse data from different sources, to be presented in an appropriate format.

9.5 Plan and work independently using various learning resources.

9.6 Work within groups, share ideas with each other and discuss the relevant issues/results by positively responding to constructive criticism.

9.7 Use information technology to acquire, analyse, and communicate effectively.

1. **A synopsis of the curriculum**

This is an IT-oriented hands-on applied econometrics/forecasting module on research methodology. This module focuses on the financial applications of statistical and econometric techniques to develop and implement tools for financial analysis and planning models. It is designed for the post-graduate students who are interested in familiarising themselves with the traditional regression techniques as well as the most recent and ongoing modern time-series econometric and forecasting techniques in order to apply them to test models/hypotheses/topical issues.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

Alexander, C. (2008) *Market Risk Analysis, Volume II: Practical Financial Econometrics*, Wiley.

Brooks, C. (2019) *Introductory Econometrics for Finance*,4thEdition, Cambridge University Press.

Greene, W.H. (2018*) Econometric Analysis*, 8th Edition, Pearson.

Tsay, R. (2010) *Analysis of Financial Time Series*, 3rd Edition, Wiley-Interscience.

1. **Learning and teaching methods**

Contact hours: 36

Private study hours: 114

Total hours: 150

1. **Assessment methods**
   1. Main assessment methods

Individual report (2500 words) (70%)

Group report (2000 words) (30%)

* 1. Reassessment methods

100% coursework

1. **Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *8.6* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* | *9.6* | *9.7* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Lectures* | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| *Labs* | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| *Private study* | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Group report* | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** |
| *Individual report* | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

1. **Inclusive module design**

The Division recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/ declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury Campus

1. **Internationalisation**

Internationalisation is actively incorporated as both subject content and assessment tasks focus on international financial markets. In particular, the module uses practical examples and datasets from international financial markets in lectures and labs, while the courseworks are based on an econometric analysis of international financial data.

**DIVISIONAL USE ONLY**

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

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| Date approved | Major/minor revision | Start date of delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
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