1. **Title of the module**

ECON3140 (EC314) Data Analysis for Economists

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

Division of Human and Social Sciences

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

Level 4

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)**

Autumn or Spring

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

None

1. **The courses of study to which the module contributes**

This module is compulsory for all students studying single honours degrees in Economics and is optional for those students on joint economics degree courses.

The module is not available to students across other degree courses in the University.

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

8.1 Search, identify and access secondary data sources

8.2 Utilise spreadsheets, in particular, Microsoft Excel

8.3 Utilise specialist data analysis and reporting tools e.g. Macrobond

8.4 Undertake graphical and numerical data analyses

8.5 Apply data analysis techniques in the context of economic theory and policy

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

9.1 Retrieve information from a variety of sources

9.2 Analyse and interpret data to support their understanding of economics

9.3 Develop logical and coherent arguments verbally and in writing

9.4 Plan work and study independently

1. **A synopsis of the curriculum**

The module introduces students to fundamental key skills used by economists in the application of economics to real world issues. It develop students’ use of information technology and their ability to access electronic and other secondary sources of data. In particular, the module promote students’ computing and quantitative skills within a structured environment.

The module covers the following topics:

* Data collection and sampling, accessing and downloading electronic data
* Descriptive statistics, graphical and numerical techniques for summarising data
* Index numbers, Paasche and Laspeyres indices, chained and non-chained indices
* National income accounts, growth accounting, logarithm and exponent functions
* Investment decisions, discounting, NPV, internal rates of return

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

* Davis, G. and B. Pecar (2013), Business Statistics using Excel, 2nd Edition, OUP.
* Etheridge, D. (2010), Excel Data Analysis: Your Visual Blueprint for Creating and Analyzing Data, Charts and Pivot Tables (3rd ed), John Wiley.
* Barrow, M. (2013), Statistics for Economics, 6th Edition, Prentice Hall.
* Whigham, D. (2007), Business Data Analysis using Excel, OUP.

1. **Learning and teaching methods**

Total contact hours: 28 hours

Private study hours: 122

Total study hours: 150

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

Data Report 1 (2000 words) (25%)

Data Report 2 (2000 words) (25%)

Workshop Attendance (10%)

Group Project (2500 words) (40%)

13.2 Reassessment methods

Reassessment Instrument: 100% coursework

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 9.1 | 9.2 | 9.3 | 9.4 |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |
| Lecture | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Terminal Class | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Drop-in | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Seminar | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Private Study | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |
| Attendance | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Report 1 | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Report 2 | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Group Report | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

1. **Inclusive module design**

The School 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

1. **Internationalisation**

The module provides students with the analytical and practical skills necessary to undertake empirical evaluation of (economic) data. The module develops skills and techniques that are globally transferrable.

**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.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 05/06/17 | Major | September 2017 | 8,9,11,12,13,14 | No |
| 21.07.21 | Minor | September 2021 | 9, 14 | No |

Revised FSO Jan 2018