



## **Module Specification**

### **Quantitative Methods for Finance**

Version: 2023-24, v2.0, 07 Mar 2023

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## Part 1: Information

**Module title:** Quantitative Methods for Finance

**Module code:** UMADBK-15-M

**Level:** Level 7

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Business & Law

**Department:** FBL Dept of Accounting Economics & Finance

**Partner institutions:** None

**Delivery locations:** Not in use for Modules

**Field:** Accounting and Finance

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** Not applicable

**Features:** Not applicable

**Educational aims:** The aim of the module is to provide an introduction of the quantitative methods used in finance, and a basic understanding of the statistical and econometric techniques used in empirical finance.

**Outline syllabus:** The syllabus includes:

- Types of data
- Data visualization and descriptive statistics
- Discrete and continuous probability distributions, population and sample statistics
- Parameter estimation and hypothesis testing
- Regression models
- Time series analysis
- Introduction to panel data

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** The aim of the module is to provide students with the knowledge of quantitative methods in finance and the statistical and econometric training sufficient to analyse financial data such as stock prices and produce a quality quantitative report.

The module provides students with an introduction to a range of econometric techniques. The module helps students acquire the quantitative skills needed to produce an empirical report in finance. The teaching style gives emphasis to the application of quantitative techniques from a 'user perspective'. Students will be actively encouraged to make themselves familiar with the study skills web pages, and in particular to read widely around the subject matter. Active use will be made of the Blackboard facilities.

Scheduled learning includes lectorials and tutorials

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion

Students will receive 3 hours of scheduled contact per week, one 1-hour lectorial and one 2-hour workshop.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Appreciate and apply key techniques in quantitative analysis

**MO2** Understand and critically evaluate quantitative methods in finance

**MO3** Apply and evaluate a range of statistical and econometric techniques using standard statistical and econometric packages

**MO4** Analyse financial data and critically interpret the results

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

## **Part 4: Assessment**

**Assessment strategy:** The students are assessed in a formative manner in the tutorial setting where they will tackle various issues in the field of applied quantitative finance methods and engage in some basic empirical research tasks.

In terms of summative assessment, there is one task required: a written assignment that requires students to carry out relevant quantitative analyses and write a report of no more than 2,000 words.

**Assessment components:**

**Written Assignment (First Sit)**

Description: Quantitative report (2000 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Written Assignment (Resit)**

Description: Quantitative report (2000 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Finance and Investment [Frenchay] MSc 2023-24

Finance and Investment [Sep][PT][Frenchay][3yrs] - Withdrawn MSc 2022-23