



## **Module Specification**

### **Foundation of Business Analytics**

Version: 2023-24, v3.0, 16 Jan 2023

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## Part 1: Information

**Module title:** Foundation of Business Analytics

**Module code:** UFCFKM-30-2

**Level:** Level 5

**For implementation from:** 2023-24

**UWE credit rating:** 30

**ECTS credit rating:** 15

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Computer Sci & Creative Tech

**Partner institutions:** None

**Field:** Computer Science and Creative Technologies

**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:** This module aims to introduce students to the major concepts of business analytics (supported by case studies and examples from various industries) and provide them with tools to solve simple business analytics problems. In order to achieve this, one needs to understand the underlying probability theory and

statistics. Thus this module also provides a basic knowledge of statistics and probability. It introduces such concepts as random variables and probability distributions, and it covers the basics of statistical analysis and inference.

**Outline syllabus:** Indicative Content:

Exploring Data - descriptive statistics, data visualisation

Probability and Modelling Uncertainty

Statistical Inference

Simulation Modelling

Introduction to Data Mining

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

**Teaching and learning methods:** The module is delivered through weekly combined lecture and tutorial sessions. Each session will direct the course and introduce the new ideas and skills required. Then tutorial sessions will enable each student to carry out the study and research exercises described in the associated work-sheet under the guidance of a Tutor.

The teaching material will be made available from Blackboard. A course text is also recommended. Scheduled learning includes lectures and tutorials.

Independent learning includes time engaged with essential reading and assignment preparation and completion.

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

**MO1** Demonstrate an understanding of the core concepts of business analytics

**MO2** Demonstrate knowledge and understanding of statistical analysis inference models

**MO3** Demonstrate knowledge and understanding of the role of probability in modelling uncertainty

**MO4** Identify, perform, and draw conclusions from appropriate statistical analyses of data sets using appropriate tools to solve business problems

**MO5** Retrieve, evaluate and communicate information from a range of sources to underpin academic research activities

**MO6** Develop a business analytics solution following a project brief and project plan

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcfkm-30-2.html) via the following link <https://uwe.rl.talis.com/modules/ufcfkm-30-2.html>

## **Part 4: Assessment**

**Assessment strategy:** Module assessment will be divided into:

Portfolio of exercises that are both summative and formative, which will be hosted on an online portfolio and personal learning platform (e.g. Pebblepad). These exercises will consist of short descriptions, statistical analysis/calculations, results using appropriate diagrams/graphs and a reflective element. They are designed to test the material covered in the lectures and practical sessions.

Group Project involving the investigation of a problem area and the development of a

potential solution. Groups will be presented with contextual evidence and/or sample datasets as guidance. They will also develop a project proposal as well as a project plan as part of the coursework. The deliverables will consist of documentation for (i) the research into their given topic, (ii) the project proposal and planning, (iii) a report detailing the business analytics techniques used to develop the solution and a presentation to defend their proposed solution during scheduled class time.

The referral coursework will be undertaken on (i) the portfolio of exercises and (ii) a group work exercise with individual elements involving a similar task to that set for the first sit assessment.

### **Assessment tasks:**

#### **Portfolio (First Sit)**

Description: Portfolio of exercises

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

#### **Written Assignment (First Sit)**

Description: Group Coursework (max. 3000 words) (with individual element)

Weighting: 50 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO4, MO5, MO6

#### **Portfolio (Resit)**

Description: Portfolio of exercises

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Written Assignment (Resit)**

Description: Group Coursework (max. 3000 words) (with individual element)

Weighting: 50 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO4, MO5, MO6

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Business Computing [Frenchay] BSc (Hons) 2022-23

Business Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2021-22

Business Computing {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2021-22

Business Computing {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2021-22

Business Computing {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2021-22