

# POSTGRADUATE CERTIFICATE IN DATA VISUALISATION AND MODELLING

Helping you make big data make sense



## Postgraduate Certificate in Data Visualisation and Modelling

A part-time course tailored to meet the needs of mid-career professionals working in mathematical modelling and data analysis.

Each 12-week module is delivered using a maximum of 5-6 full days of campus-based learning plus online exercises and assessment and a mini-project. You will be trained in the fundamental theory of mathematical and statistical modelling and specifically the practice of data analysis and visualisation.

The course comprises three modules to be completed in sequence in a period of up to 5 years. The modules can also be taken individually:

### **Advanced Statistical Modelling 21 September – 11 December 2015**

An introduction to a broad class of linear and non-linear statistical models and the principles of statistical inference to a variety of commonly encountered data analysis problems. The emphasis is very much on the practical aspect of the methodology and techniques with the theoretical basis kept at a minimum level.

### **Modelling and Data Analysis using MATLAB 1 February – 20 May 2016**

This module gives depth of knowledge in advanced modelling techniques and breadth of analysis by virtue of its general application to any field of engineering and data analysis. In this module students learn to build computer models using the facilities of MATLAB such as programming, Graphical User Interfaces (GUIs), SIMULINK and/or Statistics Toolbox.

### **Data Visualisation and Applications 23 May – 16 September 2016**

Covering an introduction to perception and the human visual system, design and evaluation of visualisation techniques, analysing, organising and presenting information visually, using appropriate techniques and visualisation systems, this module provides a general but broad grounding in the principles of data visualisation and its applications.

UKPASS code: P052251

Academic year 2015/16 £2,740

Individual module (associate student) £920 per module

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