COURSE DETAILS

Course Code: F79MA
Full Course Title: Statistical Models A
SCQF Level: 9
SCAF Credits: 15
Available as Elective: No

DELIVERY LEVEL

Undergraduate: Yes
Postgraduate Taught: Yes
Postgraduate Research: No

COURSE AIMS

In this module students will

- develop an understanding of the different methodologies of statistical inference
- develop skills in practical, computer-based estimation and inference
- develop report writing and presentation skill
- develop independent research skills

LEARNING OUTCOMES – SUBJECT MASTERY

After studying this module, students should be able to:

Understand the three main approaches to statistical inference and the relations between them, and to apply appropriate statistical methodology in a practical application.

LEARNING OUTCOMES – PERSONAL ABILITIES

At the end of the module, students should be able to:

- Demonstrate the ability to learn independently
- Manage time, work to deadlines, and prioritise workloads
- Use an appropriate computer package to process data
- Present results in a way which demonstrates that they have understood the technical and broader issues of statistical inference

SYLLABUS

- Inference and decision making
F79MA Statistical Models A

- Parameter estimation
- Likelihood
- Bayesian estimation and credibility theory
- Hypothesis testing
- Project preparation
- Applied statistical project

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