

# School of Mathematical Sciences

## DT9002 Postgraduate Certificate Applied Statistics (part time)

### Description

Postgraduate Certificate in Applied Statistics (DT9002) is a one-year part-time programme, delivered in the evenings so that study can be balanced with work and personal life. The programme is suitable for professionals who wish to learn statistics for the first time or build on their existing knowledge and skills set. The programme is a blend of underlying theory and practice with an emphasis on the use of modern software packages, such as R.

Graduates of the programme are skilled statistical practitioners, with a strong understanding of statistics. They also possess enhanced problem-solving and decision-making skills.

### Who is it for?

Global companies need individuals who understand the value of data and who ask the right questions. This programme is for professionals wishing to develop the statistical and data analysis skills to make informed and insight-led decisions. Researchers who use statistical analysis and modelling techniques are also suitable for this programme. The programme can provide a foundation and pathway to further study.

### Careers

Employers require people who are skilled in statistical modelling and data analysis and who have the ability to extract critical information from data sets using modern software. Graduates of this programme will be ready to take up data analysis and data scientist roles in sectors such as finance, manufacturing and engineering, internet technology, healthcare, government and non-profit organisations.

*more details overleaf...*

#### **For more information**

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## Features & content

- upskill and develop the skills required to advance a career more quickly in the modern workplace
- employment opportunities across different sectors
- delivered in the evenings in central Dublin
- entry September each year
- study with other part-time learners
- support from friendly, approachable and experienced lecturers
- topics include: probability; statistical inference; linear and generalised regression models; classification; clustering; factor analysis; survival analysis
- gain practical experience of important modern software, e.g. R and SAS
- learn new skills via a variety of learning methods including modelling, problem solving and group work
- develop key competencies required by companies across different employment sectors, including the ability to identify, formulate and solve problems using creative and advanced analytical skills

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## Entry Requirements

- a qualification at NFQ level 7 in Mathematics and at least one year of relevant subsequent experience in a statistical role or two years of subsequent experience in an applicable area

### OR

- a qualification of NFQ level 8 in any area with sufficient experience of a numerate discipline

*Recognition of prior learning will be used to assess the equivalence of other qualifications & experience*

## Other part-time study opportunities

- higher certificate (DT6248), ordinary degree (DT7248), and honours degree (DT8248) programmes
- MSc Applied Mathematics (September: DT9210 / January: DT9212)
- MSc Mathematical Physics (DT9206)
- part-time degrees by research (MPhil & PhD)
- CPD Diploma in Data Analysis for Professionals (DT8998)

**There is a programme to suit every entry point!**

*Individual modules can be studied as standalone CPD courses (please contact us).*