

Certificate in Data Science Statistics for Insurance & Financial Services

What is this course about?

Developed in conjunction with the Insurtech Network Centre (INC) at IT Carlow this innovative course is in one of a suite of courses designed in response to increasing industry demand for professionals with Data Science domain knowledge. The overarching objective is to assess and critique how advanced Data Science / Analytics techniques could be applied to areas of the Insurance / Financial Services business.

All organisations face challenges analysing and using data, and the most successful are those that handle and exploit it effectively. Data science expertise is a skill set increasingly required in the Insurance and Financial Services sectors. This course will introduce the student to the concepts of statistics as used for data science. The course covers the primary working principles of data science statistics (including linear, multiple and logistic regression) and how they are applied.

Students are introduced to the ongoing evolution and tasks involved in data science. The course will enable students to translate and present the output of statistical modelling projects to relevant Insurance and Financial Services business problems,

What subjects will I study?

Introduction to Statistics | Descriptive Statistics | Probability Theory | Inferential Statistics | Predictive Statistics

How is it delivered

Lectures and tutorials are provided

On Completion of the Programme, Learners should be able to

- Comprehend the and nuances of statistics used in data science
- Demonstrate an understanding of the challenges, opportunities and issues arising from the use of statistics in data science for the Insurance / Financial Services industry;
- Develop a basic understanding of the skills, tools and techniques necessary for the effective application of data science statistics in Insurance & Financial Services;
- Apply a basic practical understanding of data science statistics to problems in the Insurance & Financial Services domain;
- Critically evaluate the effectiveness of applied data science statistics in relation to the challenges/issues/opportunities to be addressed in the Insurance/Financial Services industry.

How will I be assessed?

The assessment will be a practical work based continuous assessment which will involve group and individual assignments

What does it cost?

€195 in total reduced from €390 due to funding support received from **Wexford Chamber Skillnet**.

What Progression Routes are available?

Students will receive with a stand-alone Certificate in Data Science Statistics for Insurance & Financial Services Level 8 (10 credits) and they can progress to the related Certificates in this field or one of the other Higher Diploma or Degrees on offer or the MSc in Data Science

Duration

1 evening per week
7.00 - 10.00pm
for 13 weeks or 5 days
(Indicative)

Commencing

Quarter 4 2020

Where

Blended Learning

Award

Level 8 (10 Credits)
Certificate

