

Certificate in Data Science (Data Visualisation & Insights) 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.

Our networked world is generating a deluge of data that no human, or group of humans, can process fast enough. This data deluge has the potential to transform the way insurance, business, government, science, and healthcare are carried out, but too few possess the skills needed to use automated analytical tools and cut through the noise to create knowledge from big data.

This course will introduce the student to and analyse the concepts of data science visualisation and insights and how they can be applied in Insurance and Financial Services sectors. Students will also critically evaluate the ongoing evolution in data visualisation and insights and the tasks involved. On completion students will be able to translate and present and appropriately visualise the output of data science and statistical modelling projects to relevant business problems.

What subjects will I study?

Data Analytics/Data Mining | Methodologies for Insurance & Financial Services | Data Preparation (data sets and data relations) | Data Pre-processing | Visualisation Fundamentals | Visualisation Classifications | Telling Stories with Data to a Nontechnical Audience | Communication Skills

How is it delivered

Lectures and tutorials are provided

On Completion of the Programme, Learners should be able to

- Comprehend and analyse the primary concepts and nuances of data visualisation and insights as used in data science.
- Demonstrate an understanding of the challenges, opportunities, emerging trends and issues arising from the use of data visualisation and insights in data science for the Insurance and Financial Services industries.
- Develop an understanding of the skills, tools and techniques necessary for the effective application of data visualisation and insights in Insurance and Financial Services.
- Critically research, analyse, select and employ the appropriate data visualisation and insights to problems in the Insurance / Financial Services domain

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) or 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

