

DATA SCIENCE

POSTGRADUATE DIPLOMA



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LEVEL 7

Diploma in Data Science

With the emergence of cloud computing, big data and artificial intelligence, data science has become a key fourth generation profession. The Level 7 Postgraduate Diploma in Data Science has been developed to prepare aspiring Data Scientists, Data Analysts and Artificial Intelligence specialists to take advantage of the growing business and employment opportunities in these fields.

The Diploma is designed to enable learners to gain skills in maths, statistics and programming in R, Python and SQL. The Diploma also provides a sound basis for a progression to Masters Degrees in a number of relevant disciplines.

Learning Outcomes

Gain the mathematical and statistical knowledge and understanding required to carry out basic and advanced data analysis.

Develop sufficient skill in the R, Python and SQL programming languages to use them to successfully carry out data analysis to an advanced level.

Develop a strong understanding of data management, including evaluation, structuring and cleaning of data for analysis.

Become familiar with and use the tools and techniques used in data visualisation

Develop a comprehensive knowledge of classical data analytics, including statistical inference, predictive modelling, time series analysis and data reduction.

Become familiar with and apply common machine learning techniques to business and other problems in order to uncover options and solutions for them.

Develop an understanding of essential concepts from contemporary themes in business. Understand, evaluate and apply data science and analytics within business and organisational contexts.

Exploratory Data Analysis	(8 Credits)
Statistical Inference	(12 Credits)
Fundamentals of Predictive Modelling	(15 Credits)
Advanced Predictive Modelling	(15 Credits)
Time Series Analysis	(15 Credits)
Unsupervised Multivariate Methods	(15 Credits)
Machine Learning	(15 Credits)
Further Topics in Data Science	(15 Credits)
Contemporary Issues in Business	(10 Credits)

Entry Requirements

A minimum of a Level 6 qualification in a related sector or;

Bachelors degree or;

A minimum of 3 years work experience which demonstrates current and relevant industry knowledge.

The OTHM Level 7 diplomas on the Regulated Qualifications Framework (RQF) are at the same level as master's degrees. However, they are shorter (120 credits) and learners will have to proceed to the dissertation stage (60 credits) with university to achieve a full Masters programme.





Duration

6 Months

Class Schedule

Every Sunday

Delivery

Online only

Assessment Methods

Assignments & Workshops

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A minimum of 3 years work experience which demonstrates current and relevant industry knowledge.

Investment

LKR 385,000 + Reg. Fee 10,000

Total Qualification time

1200 hours

Overall Grading Type

Pass/Fail

Assessment Methods

Coursework

Language of Assessment

English

Module exemptions may be granted based on prior qualification curriculum.

This qualification will also help you to meet the criteria required for migration purposes for countries such as Canada, Australia, and New Zealand.



ATHE is a global awarding organisation regulated by Ofqual, Qualifications in Wales and other international regulators. We provide centres with a wide variety of qualifications including, but not limited to business and management, computing, law, computing and information technology, accounting, health and social care, education and training and religious studies. The qualifications have been meticulously crafted through collaborative efforts involving expert insights from college managers, staff, training providers, businesses, subject matter experts, and the dedicated qualification development team.

Valuable input from learners has been considered, alongside consultations with higher education institutions, to ensure these qualifications seamlessly enable advancement to higher levels where relevant. Leveraging the adaptability of the RQF, a comprehensive range of awards, certificates, and Extended Diplomas has been curated, offering a seamless pathway for progression across various RQF levels and their globally recognized counterparts.

<https://athe.co.uk/>



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