# MSC DATA ANALYTICS AND ENTERPRISE ARCHITECTURE MANAGEMENT

The rapidly changing technological environment means that getting ahead of changes and developments is essential – especially for those working in the IT environment. Our online MSc in Data Analytics and Enterprise Architecture will provide you with an understanding of how to identify and design appropriate methods of gathering data in the complex modern computing systems of today and how to draw insights from this, and present data to inform decision making.
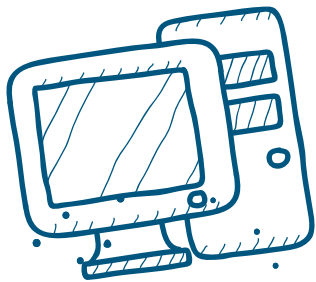
Modules are:

Data Design

How can data be useful for a business? How do you collect data? Do you know how to approach it?

Through this module you will gain a solid understanding of how to approach data analytics by starting with these key questions about intended outcomes for your business. From this, selecting the most appropriate data collection method will help you to develop skills in designing deployment approaches, implementing data collection approaches and revising instruments and systems to achieve valuable outcomes.

Data Handling and Decision Making

Modern businesses have access to more data than ever. People armed with the skills to handle that data - and who can use it to make informed business decisions - add real value to their workplace.

This module focuses on teaching you how to do an analysis of the data environment in an organisation, and crucially once you have that data, how you handle it and what you can do with it – whether that is to make the business more efficient, or lead it in a fresh direction. The key is not just to interpret and understand the data, but to make knowledge driven decisions. We test this through a case study driven task that allows students to apply what they have learnt to a real business scenario.

Data Visualisation and Interpretation

The volume of data held by organisations has grown massively in recent years and is generated at an ever-increasing rate. Data has the power to give businesses significant competitive advantage - if used effectively. This means there is a need for the data that is generated and analysed to be presented in a manner that is universally engaging and understood – for example across departmental

boundaries or by non-specialists.

Architecture Design

The integration of systems and technologies in modern computing systems is highly complex and has to support a wide variety of user requirements and experiences, as well as addressing overall business needs. In order to achieve this, it is necessary to approach the design of systems in a structured way to ensure they can be effectively implemented. This module will evaluate current systems and methods as well as upcoming trends in hardware, software, and systems use. At the end of the module, you will evaluate the current architecture within your organisation and make recommendations for improvement

Technology and Trend Monitoring

The rapidly changing technological environment means that staying abreast of changes and developments is essential for anyone working within a strategic IT role. This module will give you the opportunity to evaluate newly emerging technologies and investigate their application within current business practice. We will use an analytical approach that can be applied to future appraisals of environmental change. The outcome of this module is to evaluate an emerging IT trend and investigate the feasibility of implementing it within current business practice to generate an innovative solution.

Business Change Management

Change is inevitable, and the pace and scale of change is greater in today's technology environment than ever before. The need to embrace change and make the most of it is essential in developing innovative IT solutions. This module will assess the implications of new solutions and how to manage the process of change effectively. Issues such as sustainability and business process continuity will be evaluated to illustrate their impact on the change management process. The output of this module is an audit of current change management practices and recommendations for changes in process.
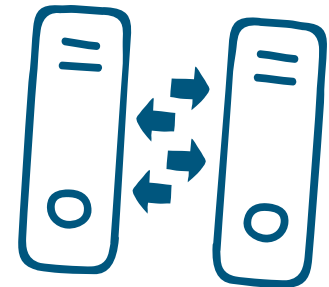
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Research Project

The research project is a vital part of achieving Masters level - and it is your chance to undertake research into an area of your choosing, related to the programme theme.

We'll support you through the first stage with six weeks of sessions to help you create your research proposal - and you can choose from a conventional dissertation or an academic article and presentation. You will develop your critical abilities and produce a piece of work that's relevant in practice and meets the academic standards needed at Masters level, and just as importantly, add value to your organisation and career.

Course duration and hours of study

This varies depending on the course you're studying but you can access modules at a pace that is convenient for you. Once you have accessed a module, there is a minimum and maximum time that you will need to finish the module within.

You can find out more information on the course page, visit www.arden.ac.uk. Alternatively, please call our admissions team on +44 (0) 2476 515700 or 0800 268 7737 for more details.

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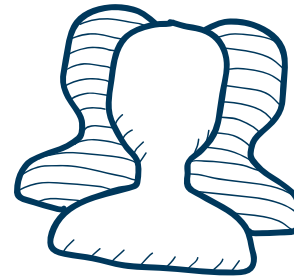
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Entry requirements

To be eligible for this course you must normally have:

A UK honours degree at a minimum of second class (2.2) or equivalent.

For students whose prior learning was not taught in English:

IELTS 6.5 or equivalent.

Please be aware that this course will require you to handle numbers. We recommend that you hold a minimum of GCSE standard maths to succeed. Please speak to a member of our admissions team for more information.
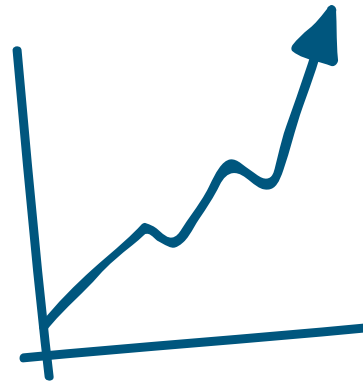
If you don't have academic qualifications

We're more than happy to consider, and positively encourage, an application from you if you have substantial management experience (typically 5 years) and can show us that you have the motivation to study the programme.

ONLINE POSTGRADUATE COURSE

How to apply

Email: enquiries@arden.ac.uk