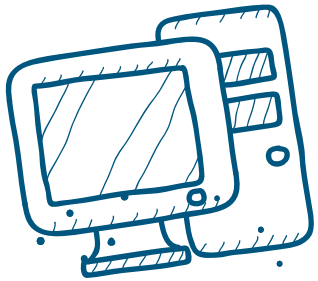
# MSC DATA ANALYTICS AND IT SECURITY MANAGEMENT

**With cyber-crime keeping up with the rapid development of technology, there is a growing need for cyber security specialists who know how to read and analyse data in order to protect business information and reputation from risks, threats and crises. In this programme you will recognise the importance of data within the changing IT security landscape. You will consider the evolving field of technology and the security risks that come with it, learning how data can be manipulated to result in strategy driven decisions.**



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## 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

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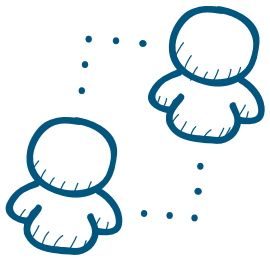
example across departmental boundaries or by non-specialists.

### Information Security Strategy Development

Planning for the management of security threats is an essential activity for any organisation that uses IT solutions. This requires effective and flexible strategies implemented by people with specialist knowledge. This module focuses on the main technologies used for security, as well as the evaluation and implementation of established standards and methods for developing robust and effective strategies. The output of this module is two case studies focusing on an evaluation of current security strategy and the development of computer forensic skills.

### IT Security Management

The effective management of IT security goes beyond the design of effective strategies. Rigorous and consistent application of policy and methods are crucial to the cyber security of modern organisations. This module studies the techniques required to manage the security of IT systems in organisations of all sizes, as well as how to develop and implement a security recovery plan. The output of this module is an evaluation of your current organisational practice against the policies that govern it and appropriate recommendations for improvement.



### IS Governance

As the use of IT in the workplace continues to grow, the importance of a robust governance framework has never been more important. It plays a key role and incorporates legal, economic, political and technological issues. In this module, you will evaluate how governance can mitigate risk and maximise the benefits associated with various systems and software. The outcome of this module will challenge you to audit current governance approaches, present recommendations for a revised version, and critique the approaches recommended by peers.

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## Research Project

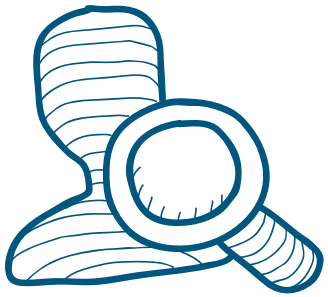
The research project is a vital part of achieving Masters level - and it is your chance to undertake research into an area of your choosing, related to the programme theme.

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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## 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.

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## How to apply

Email: enquiries@arden.ac.uk