



# MSc Information Technology

**The MSc Information Technology is a well established and popular course taught by leading scholars, providing you with the knowledge and skills required of technical experts within this field.**

The flexible structure of the course lends itself equally to those with a strong background in programming as well as candidates from the fields of science and engineering with little or no experience in computing.

It offers an overview of the field including networks and the internet, system and network administration, databases, artificial intelligence, computer security, multimedia, mobile computing, computer graphics, human factors, and user interface design while allowing students to focus on specific skills like programming and software engineering.

Research and teaching within the School, which has been established for more than 20 years, is centred around a number of laboratories, institutes and research groups, which offer the best in interdisciplinary studies and cutting-edge technologies. These include:

- Automated Scheduling, Optimisation and Planning
- Foundations of Programming
- Horizon Digital Economy Research
- Intelligent Modelling and Analysis
- Learning Sciences Research Institute
- Mixed Reality Laboratory
- Vision and Image Processing





# MSc Information Technology

## Course content and structure

The course can be completed in one year full-time or two to four years part-time. The first semester is shared with the MSc Management of Information Technology so that you can transfer to this related course if it is more in keeping with your interests and strengths.

The course comprises a range of compulsory and optional modules, totalling 120 credits, which can be combined to suit your previous experience of computing and programming, including:

- Computer Security
- Database Systems
- Foundations of Artificial Intelligence
- Software Engineering
- System and Network Administration

During the summer, you will conduct a piece of practical in-depth research containing a technical element, often a substantive amount of programming. This work forms the basis of the dissertation, worth 60 credits, which is written up in a report of 15,000–20,000 words. You will conduct your research under the supervision of a member of academic staff and, in some cases, in collaboration with an external partner.

## Assessment

Your work will be assessed using a variety of methods including coursework, group and individual reports, written and online exams, and presentations.

## Facilities and resources

Situated in purpose-built facilities on the Jubilee Campus, the School provides the latest in advanced teaching technologies and high-speed networking as well as first-rate facilities for research into automated scheduling and optimisation, mixed reality, foundations of programming, image processing, and learning technologies.

The School has three large computing labs equipped to a high specification. Microsoft application and development suites are installed on all lab machines, and the School's rolling programme of upgrades ensures that you will have access to the latest equipment and software. You will receive membership of the Microsoft Development Network, allowing you to download and use Microsoft software for research and development for the duration of your studies.

A dedicated team of support staff works within the School, experienced not only in the latest technologies, but also the demands of research within this field.

## Entry requirements

The course is ideal for scientists and engineers who do not have a background in computer science or IT, but also provides a route for those with a strong background in this field. You would normally be expected to hold an honours degree at 2:2 level or above (or its international equivalent).

Relevant professional experience will be considered in assessing applications, but is not a requirement. If your first language is not English, you must achieve an overall score on the British Council IELTS test of at least 6.0 with no less than 5.0 in each element, or a TOEFL score of 550 with a TWE of at least 4.0, or a TOEFL iBT score of 79 (with no less than 17 in any element). Test results should be no more than two years old.

## Funding

You can find advice on our website regarding funding your course.

Home and EU students can find information at [www.nottingham.ac.uk/graduateschool](http://www.nottingham.ac.uk/graduateschool)

Information for international students can be found at [www.nottingham.ac.uk/internationaloffice](http://www.nottingham.ac.uk/internationaloffice)

## Applications

Candidates are encouraged to apply online at <https://pgapps.nottingham.ac.uk>

## Career opportunities

This course will prepare you for careers in a wide range of technical disciplines including programming, software engineering, network management, artificial intelligence, and multimedia and graphics. It is also an excellent foundation for doctoral studies.

The School has strong relationships with a number of large profile companies including Pricewaterhouse Coopers, Experian, Microsoft/Microsoft Rare and Goldman Sachs, and can help you make links with potential employers. The University's Centre for Career Development is also an invaluable resource when you are researching and pursuing your chosen career. All our graduates have access to the Centre for life – visit [www.nottingham.ac.uk/careers](http://www.nottingham.ac.uk/careers)

## Enquiries

**For further information, please contact:**

Taught Courses Administrator

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