



MSc Advanced Computing Science

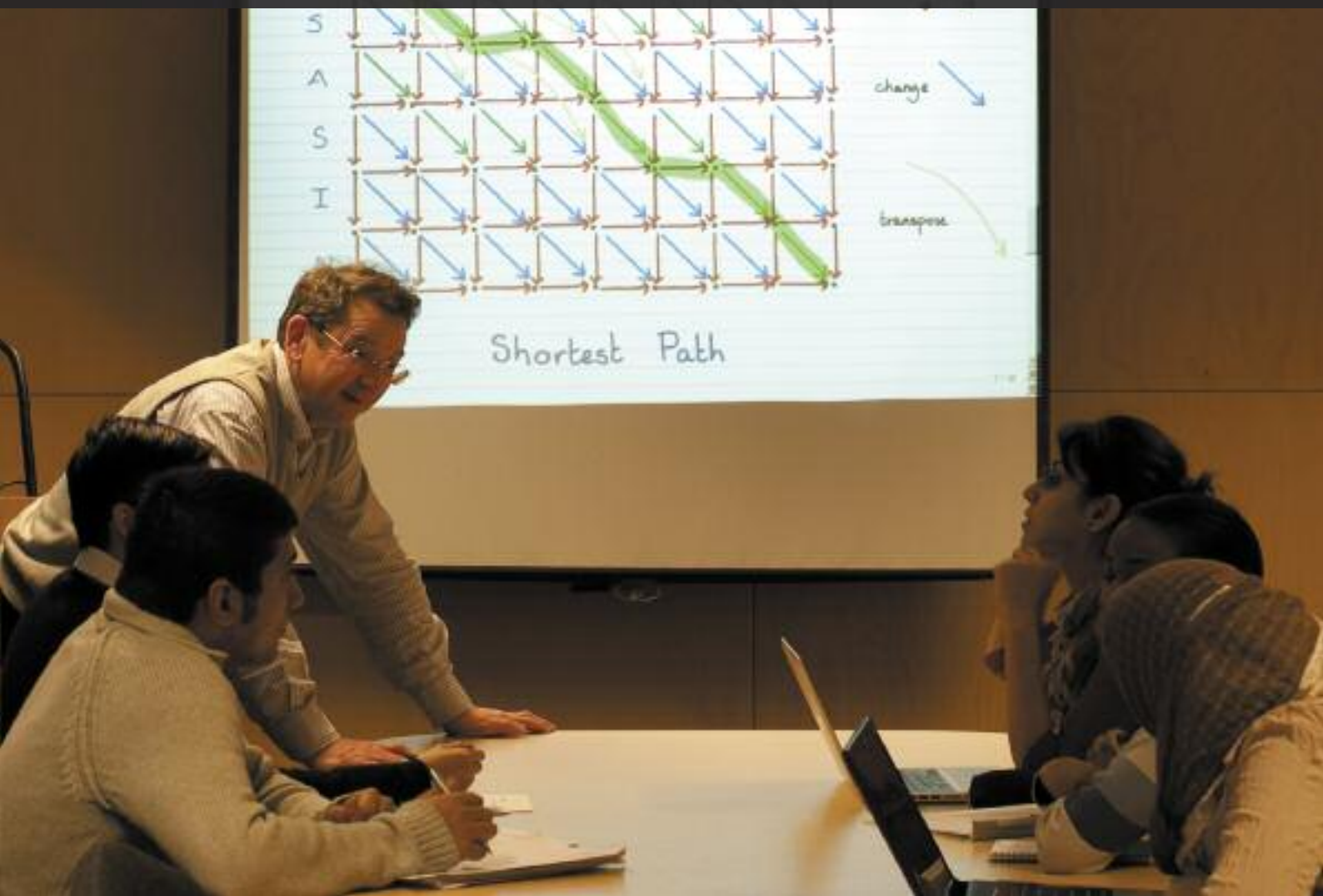
The MSc Advanced Computing Science is ideal preparation for a computer programming career in either industry or research.

Designed for those who have completed a first degree in computer science or a related subject, the MSc brings you to the forefront of current research, preparing you for leading roles in software development.

Subjects addressed by the course reflect the School's research strengths in areas including the mathematical foundations of programming, intelligent systems, and netcentric computing interactive systems.

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
- Functional Programming
- Horizon Digital Economy Research
- Intelligent Modelling and Analysis
- Learning Sciences Research Institute
- Mixed Reality Laboratory
- Vision and Image Processing





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Course content and structure

The course, which can be completed in one year full-time or two to four years part-time, comprises a range of compulsory and optional modules, totalling 120 credits, including:

- Algorithm Design and Operations Research
- Bioinformatics
- Designing Intelligent Systems
- Operations Research

During the first semester, you will receive a thorough grounding in the development of advanced software. In the second, you will specialise in an area related to one of the School's research strengths – work which becomes the basis of your final individual project.

The course, delivered by leading international experts, will equip you with an in-depth knowledge of the mathematical foundations of computing and the advanced programming skills required to design and develop software to the highest requirements of reliability and efficiency.

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, and image processing. The School has three large computing labs, each 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 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, who are experienced not only in the latest technologies, but also the demands of research within this field.

Entry requirements

You would normally be expected to hold an honours degree at 2:1 level or above (or its international equivalent) in computer science, mathematics, science, or engineering disciplines.

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 6.5 with no less than 6.0 in each element, or a TOEFL score of 573 with a TWE of at least 4.5, or a TOEFL iBT score of 88 (with no less than 19 in any element). Test results should be no more than two years old.

Funding

A small number of Engineering and Physical Sciences Research Council (EPSRC) awards are available for suitably qualified candidates.

Information on funding for home/EU students can be found at www.nottingham.ac.uk/graduateschool

Information on funding for international students can be found at 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 a career in advanced software development. It also provides 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 of Nottingham 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

Enquiries

For further information, please contact:

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