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Recognised as a global elite university, Birkbeck is in the top 150 universities in the world in the *Times Higher Education* World Rankings 2011. Over 90 per cent of Birkbeck academics are research-active and many are renowned experts in their fields. In the most recent Research Assessment Exercise (RAE 2008), Birkbeck ranked in the top 25 per cent of UK multi-faculty institutions.

Birkbeck is recognised for providing the highest quality teaching, which is informed by our outstanding research excellence. This is proven by our number one position in the National Student Surveys*.

19,000 students study with us every year. They join a community that is as diverse and cosmopolitan as London's population.

* National Student Surveys 2005–2011



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School of Business, Economics and Informatics
Department of Computer Science
and Information Systems

Advanced Computing Technologies

MSc in Advanced Computing Technologies
MSc in Information and Web Technologies
MSc in Intelligent Technologies



www.dcs.bbk.ac.uk/courses/mscact

Advanced Computing Technologies

MSc in Advanced Computing Technologies

MSc in Information and Web Technologies

MSc in Intelligent Technologies

Aims

This specialist programme of study of advanced computing technologies focuses on two areas of expertise and research specialisation within the Department of Computer Science and Information Systems:

- Information and Web Technologies
- Intelligent Technologies

In addition to eight taught modules, there is a substantial practical project. As an alternative to the award **MSc Advanced Computing Technologies**, students may choose modules and a project with a particular specialisation leading to awards **MSc Information and Web Technologies** and **MSc Intelligent Technologies**.

Students who complete this MSc will have gained strong practical and theoretical knowledge of the above areas which they will be able to use in

- analysis of problems arising in the use of advanced computing technologies
- evaluation of technology options
- deployment of appropriate solutions
- research into, and development of, new technologies.

Duration

One year full-time, two years part-time.

Attendance

- Up to four days a week full-time, up to three evenings a week part-time, October-September.

Special features

The programme has been designed to meet the needs of both full-time students wishing to advance their knowledge of advanced computing technologies before embarking on a career in IT or on a research degree, and part-time students already working in the IT sector. The programme has significant coverage in many modules of emerging technologies and research developments.

Programme contents

This degree consists of eight taught modules and a substantial project.

Full-time students complete a three–four month project and follow eight taught modules, which could include: Cloud Computing; Mobile and Ubiquitous Computing; Internet and Web Technologies; Semantic Web; Search Engines and Web Navigation; Enterprise Computing; Advances in Data Management; Data Warehousing and Data Mining; Information Retrieval and Organisation; Information Security; Intelligent Technologies; Computational Intelligence; Knowledge Representation and Reasoning; Object-Oriented Design and Programming.

Part-time students follow four of the taught modules in each of the two years, and undertake the project during the second year.

Entry requirements

The normal entrance requirements are a good first degree or MSc in Computer Science, with the syllabus covering a substantial amount of programming, preferably in an object-oriented language. Joint honours computing graduates may also be eligible, provided they have covered a substantial amount of programming, or have equivalent professional experience in the IT industry. **You must be an EU citizen or otherwise have the right to work full-time in the UK in order to enrol in a part-time course.**