Birkbeck, University of London

Birkbeck is a world-class research and teaching institution, a vibrant centre of academic excellence and London’s only specialist provider of evening higher education. We encourage applications from students without traditional qualifications and we have a wide range of programmes to suit every entry level. Our academic reputation also attracts many full-time postgraduate students.

Recognised as a global elite university, Birkbeck is in the top 200 universities in the world in the Times Higher Education World Rankings 2012. 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 2006–2012

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

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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 obtained knowledge and understanding of technologies of growing importance in the IT industry and their relationship to current and emerging IT industry practice. They will be able to use this knowledge and technical skills gained 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

Two years part-time, one year full-time.

Attendance

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

Special Features

The programme has been designed to meet the needs of both part-time and full-time students wishing to advance their knowledge of advanced computing technologies. Students may be already working in the IT sector and wish to update their skills, or intend to pursue a career in IT or a research degree subsequently. The programme has significant coverage of emerging technologies and research developments.

Programme Content

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

Taught modules include: Cloud Computing; Mobile and Ubiquitous Computing; Internet and Web Technologies; Semantic Web; Search Engines and Web Navigation; Component Based Software Development; Advances in Data Management; Data Warehousing and Data Mining; Information Retrieval and Organisation; Information and Network Security; Intelligent Technologies; Computational Intelligence; Knowledge Representation and Reasoning; Programming Paradigms and Languages; 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 Requirement

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.

For more information and online application form please visit www.dcs.bbk.ac.uk/courses/act
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Advanced Computing Technologies

Postgraduate Certificate in Advanced Computing Technologies
Postgraduate Diploma in Advanced Computing 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

Flexible pathways enable you to choose whether to follow 4 or 8 modules, and the period of study which can be 1 year or 2 years.

- Complete 4 modules to be awarded a Postgraduate Certificate in Advanced Computing Technologies.
- Complete 8 modules to be awarded a Postgraduate Diploma in Advanced Computing Technologies.
- Successful students may continue their studies to complete 8 modules and a substantial practical project to be awarded MSc Advanced Computing Technologies.

Students who complete this programme will have obtained knowledge and understanding of technologies of growing importance in the IT industry and their relationship to current and emerging IT industry practice. They will be able to use this knowledge and technical skills gained 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 part-time (Postgraduate certificate).
Two years part-time (Postgraduate diploma).

Attendance

- Up to three evenings a week, October–July.

Special Features

The programme has been designed to meet the needs of part-time students wishing to advance their knowledge of advanced computing technologies. Students may be already working in the IT sector or intending to pursue a career in IT. The programme has significant coverage of emerging technologies and research developments.

Programme Content

This programme consists of four taught modules (PG Cert) or eight taught modules (PG Dip).

Modules include: Cloud Computing; Mobile and Ubiquitous Computing; Internet and Web Technologies; Semantic Web; Search Engines and Web Navigation; Component Based Software Development; Advances in Data Management; Data Warehousing and Data Mining; Information Retrieval and Organisation; Information and Network Security; Intelligent Technologies; Computational Intelligence; Knowledge Representation and Reasoning; Programming Paradigms and Languages; Object-Oriented Design and Programming.

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