



School of Engineering and Mathematical Sciences

MSc Systems & Control

Control systems can be seen in all areas of processes and manufacturing as well as in fields such as national utilities, vehicles and aerospace. This course focuses on the most topical areas of systems and control and prepares students for major technological developments in the areas of systems modelling, control systems design, optimisation, optimal control and advanced control techniques and applications.

Course content

Students gain an understanding of general systems behaviour and learn the techniques for driving the performance of different types of systems. These range from common engineering-type applications, such as chemical processes, robotics, aerospace and power systems, to more general areas such as biological systems, management systems, economic systems and man-made machines.

Modules include:

- Mathematical techniques for systems and control
- Signals and information theory
- Control and measurement
- Systems modelling
- Control systems design
- Linear and non-linear systems
- Optimisation and optimal control
- Process systems and control

Employment opportunities

This course assists engineers and applied scientists in developing a rich knowledge of systems and control. Students gain the skills base to enhance their professional careers as well as a foundation for the advancement to further study and academic research.

Entry requirements

Applicants should normally hold a second-class honours degree, or equivalent, in an engineering or appropriate science discipline. However, we are always ready to talk to potential students with other qualifications. For those students whose first language is not English, the following qualifications are also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

Duration

Full time: one year, with the project taking approximately six months during this period.

Part time: two years, with the project taking approximately six months during or after this period.

Fees

Full time: £3,950 UK/EU
£10,500 International

Part time: £1,975 UK/EU
£5,250 International

Scholarships

Each year, we make funds available for scholarships to outstanding students on each of our specialist Master's courses.

More information

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