



School of Engineering and Mathematical Sciences

MSc Energy and Environmental Technology and Economics

As the UK firms up on its post-Kyoto commitments, with developments such as the Climate Change Levy and Emissions Trading, it is becoming clear that a new momentum for energy and environmental management is emerging. This momentum requires a new mix of skills encompassing the more traditional technologies but aligned to the financial, economic and regulatory issues that now play such an important part in the life of those responsible for the purchase and management of energy.

Course aims

This postgraduate course, accredited by the Energy Institute, has been designed to develop skills in cost effective management of energy resources and in managing commercial and industrial development within tight environmental constraints. This is achieved through knowledge of the latest technologies and of the economic and regulatory issues.

The course addresses the implementation of energy management systems and technologies, including renewables, while recognising the importance of the evolution of energy supply. It also covers important environmental issues such as those arising from combustion of hydrocarbon fuels for industrial and transport purposes. It provides students from economic, management and engineering backgrounds with a firm basis for career development.

Who the course is aimed at

The course is focused towards individuals and industries concerned with investment in energy and environmental technologies and services, the management of energy resources, conversion and use, or related research and development.

It aims to provide a technical and economic framework within which the participants may develop the skills required by a successful industrial economy. This framework will include an examination of EU and UK government policies, commensurate strategies and their implications relative to global activities and the international market in energy resources. This must be against a background of continuing change.

Participants will therefore be well equipped with the technical, commercial and managerial skills that are required to meet Europe's international commitments.

Why study Energy and Environmental Technology and Economics at City?

Teaching at City is informed by internationally renowned research, and industry links help keep City at the forefront of engineering, enhancing the courses we teach.

Key facts:

- The course is accredited by the Energy Institute
- Strong industry links mean the course features visiting lecturers who are senior figures in their fields
- The scheduling of the course means it is possible to study part time while retaining a full time job
- Both part time and full time students benefit from a high level of support in preparation for modules and project work
- Former students have gone on to build successful careers in a wide variety of areas including oil exploration, petrochemicals, power plant energy audits, and modernisation and maintenance projects
- Formal collaboration with the Centre for Environmental Strategy at the University of Surrey allows students to take elective modules that focus on sustainability

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Course structure and duration

The course teaching is organised into modules comprising of three consecutive day courses taken at a rate of one a month. The course is taught full time over 18 months and part time over three years.

To obtain an MSc, the student has to pass eight modules (four core and four elective) plus one minor project and one major project.

Participants who fulfil the core and elective requirements but choose not to submit minor and major projects will be awarded a Postgraduate Diploma.

Participants who pass four core modules but do not wish to proceed further will be awarded a Postgraduate Certificate.

Teaching is organised into modules which take up to three consecutive days. These are normally taken at the rate of one a month. This format makes the course attractive to those who wish to study part time while continuing to work full time. Full time students are expected to devote a significant part of their non-taught time to project work and private study.

As participants are likely to come from a variety of backgrounds, special introductory modules for engineers, managers and financial services professionals provide a common starting-point for the main part of the course.

Core modules:

- Introduction to energy and environmental issues
- The energy market from the purchaser's perspective
- Energy policies and economic dimensions
- Corporate energy management

Elective modules:

- Energy, consumer goods and the home
- Gaseous and particulate emissions and their control
- Energy in industry and built environment
- Emissions trading
- Energy Conversion technology
- Risk management
- Transport energy and policy
- Renewable energy and sustainability
- Decommissioning of large industrial plants

For MSc students the major project period provides an opportunity to undertake a substantial piece of work, developed in close collaboration with one of the staff members, many of whom are at the forefront of their technological fields.

Entry requirements

Applicants may have financial, management or technological backgrounds, and must be able to show potential to reach a senior position in the energy industry.

For further details please contact:

If you wish to apply for this course or want more information including current course fees please contact:

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