

Building Services Engineering MSc

Programme Description

The programme is focused on the development of skills in the design and operation of building services systems. With buildings accounting for over 40% of total carbon emissions, the course also includes modules on the design and thermal modelling of low carbon buildings. The course is designed to meet the needs of both:

- graduates from other disciplines who seek a career in Building Services Engineering; and
- existing Building Services Engineers who wish to develop their technical skills in the design and operation of building services systems and low carbon buildings.

Entry Qualification

A good first degree in engineering, science, mathematics, or discipline related to building services engineering; other qualifications supplemented with relevant industrial experience will also be considered. International students require an approved English language qualification (IELTS 6.5 or equivalent).

Programme Structure

The programme can be taken as a one-year full-time programme or part-time over two to five years. Modules are taught in one-week blocks; student learning is supplemented by self study and project work in the periods between taught elements. The programme has eight 15 credit taught modules and a 60 credit individual research project; a total of 180 credits being required for an MSc. The modules fall into three categories, the design and operation of building services systems, advanced design methods, and the research project. The 15 credit taught modules are spread between the two semesters, with the 60 credit research project spanning both semesters and the summer period.

Building Services Systems Design and Operation	Advanced Design Methods	Research Project
Heat Transfer and Fluid Flow for Buildings (15 credits)	Concept Design (15 credits)	Postgraduate Research Project (60 credits)
Thermal Comfort and Indoor Air Quality (15 credits)	Low Carbon Building Design (15 credits)	
Building Thermal Loads and Systems (15 credits)	Advanced Thermal Modelling (15 credits)	
Building Thermal Plant and Systems (15 credits)		
Building Control and Commissioning (15 credits)		

Bursaries: these may be available to international candidates who apply early.

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