H1KB09: Civil Engineering

Postgraduate Taught MSc 2021

Essentials

Please note: 2020-21 courses may be affected by Covid-19 and are therefore subject to change due to the ongoing impact of Covid-19. Summaries of course-specific changes resulting from the impact of Covid-19 will be provided to applicants during August 2020.

For the latest information on our plans for teaching in academic year 2020/21 in light of Covid-19, please see www.durham.ac.uk/coronavirus

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<th>UCAS code</th>
<th>MSc</th>
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<tr>
<td>Degree</td>
<td>Full Time</td>
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<tr>
<td>Mode of study</td>
<td>1 year</td>
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<td>Location</td>
<td>Durham City (<a href="http://www.durham.ac.uk/study/location/durham.city">www.durham.ac.uk/study/location/durham.city</a>)</td>
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<td>More information</td>
<td>Still have questions? (<a href="http://www.durham.ac.uk/study/askus/">www.durham.ac.uk/study/askus/</a>)</td>
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Course Summary

Description

This course will provide you with advanced knowledge and understanding of Civil Engineering in three ways. Firstly high-quality taught modules will introduce advanced Civil Engineering topics such as structural design and highways engineering. Secondly, a substantial Civil design element will equip you with the ability to carry out structural design using appropriate design standards and numerical analysis tools. Finally, a major research and development project allows you to demonstrate the ability to work independently on a complex topic and demonstrate initiative in the solution of engineering challenges.

Durham University has many researchers tackling the challenge of ensuring sustainability and resilience of the infrastructure that underpins our society and economy. This sustainable infrastructure will form the topic of many of the substantial projects that you will undertake and you are uniquely placed to take advantage of a broad range of expertise in a general engineering department.

Course Structure

The course consists of six core modules to provide advanced engineering education in Civil Engineering technologies. In addition to these taught modules, you will also complete an individual civil design project working with professional engineers and a major, individual research and development project working closely with an academic in your chosen subject area

Core taught content:

- Structural Design
- Advanced Geotechnical Engineering
- Structures 4
- Transportation Infrastructure Engineering
- Hydrology and Water Resources
- Planning and Contract Law
Admissions Process

Subject requirements, level and grade

To be admitted to the MSc programme in Civil Engineering, you need the equivalent of a UK Honours degree to at least an upper second class standard (2:1). This should normally be in an appropriate Engineering or Engineering-related subject including modules in Geotechnics, Mechanics and Mathematics for Engineers and Scientists. Although in some instances we can consider industrial or other relevant experience if you have a different first degree.

If you are an international student who does not meet the requirements for direct entry to this degree, you may be eligible to take a pre-Masters pathway programme at the Durham University International Study Centre (www.durhamisc.com/?ch=uniweb&cc=signposting&cid=uniweb&utm_source=signposting&utm_medium=signposting&utm_campaign=uniweb).

English Language requirements

Please check requirements for your subject and level of study (www.durham.ac.uk/learningandteaching.handbook/1/3/3/).

How to apply

www.durham.ac.uk/postgraduate/apply
Fees and Funding

The tuition fees for 2021/22 academic year have not yet been finalised, they will be displayed here once approved.

The tuition fees shown are for one complete academic year of full time study, are set according to the academic year of entry, and remain the same throughout the duration of the programme for that cohort (unless otherwise stated).

Please also check costs for colleges and accommodation (www.durham.ac.uk/postgraduate/accommodation/costs/).

Scholarships and funding

www.durham.ac.uk/postgraduate/finance
Career Opportunities

Department of Engineering

For further information on career options and employability, including the results of the Destination of Leavers survey, student and employer testimonials and details of work experience and study abroad opportunities, please visit our employability web pages (www.durham.ac.uk/ecs/postgraduate/employability).
Open days and visits

Pre-application open day
www.durham.ac.uk/postgraduate/visit

Overseas Visit Schedule
www.durham.ac.uk/international/office/meetus

Postgraduate Visits
PGVI or
www.durham.ac.uk/postgraduate/visit/
Department Information

Department of Engineering

Overview

The Department of Engineering offers postgraduate courses that are challenging and technologically relevant. The Department's research covers a wide range of topics, which are divided into three challenge areas: Future Energy Systems, Next Generation Materials and Microsystems, and Sustainable Infrastructure. A broad range of specialist research clusters support our activities in these areas. Durham engineering postgraduates, both taught and research, will be making a vital contribution to these challenge areas. You will have access to extensive and diverse research facilities to support your learning. For example, airflow sensors, made using cutting-edge microfabrication techniques in the Class 1000 Cleanroom, have been tested and characterised in the Department's wind tunnel facilities.

Ranking

Ranked joint 1st in the UK for Internationally Excellent or World-Leading research impact in REF 2014.

Website

www.durham.ac.uk/engineering