

Course code: T279, T314

# MEngSc Structural Engineering

One Year Full Time / Two Years Part Time

## Introduction

Studying at master's level, you will cover a wide range of topics not traditionally covered in undergraduate degrees.

The programme includes specialist modules in structural dynamics, bridge engineering, structural design and professional engineering. You will also learn how to work in a multidisciplinary setting through combined modules with non-Engineering students. Structural engineering is a continually evolving profession, and through the third trimester Research Project you will learn how to apply this specialist knowledge to develop new concepts and ideas under the supervision of research-active academic staff. This programme will distinguish you as having specialist knowledge in the area of Structural Engineering and provide you with a competitive edge over your peers in the job market.

## **Course Highlight**

This programme is delivered by a highly research-intensive school, which is in the top 150 in the QS world subject rankings. An example of this research activity is the coordination of the 3.7 million euro EU Horizon 2020 TRUSS Innovative Marie Sklodowska-Curie Innovative Training Network, to develop tools for improving the maintenance and management of aging infrastructure.

## **Course Content and Structure**

- 90 credits taught master's
- 60 credits taught modules
- 30 credits dissertation

#### Modules include:

- Realising Built Projects
- Analysis of Structures 3
- Innovation Leadership
- Structural Dynamics
- Advanced Materials
- Quantitative Methods for Engineers
- Agency: Design/Build

- Design of Structures 3
- Bridge Engineering
- Geotechnics 4
- Professional Engineering (Management)
- Structural Research Project
- Engineering Design Project
- Energy Systems in Buildings

## Why study at UCD?



## Graduate education 12,800 graduate students; 17%

graduate research students; 17% structured PhDs



#### Global profile UCD is ranked in the top

1% of higher education institutions worldwide



# Global community

students from more than 152 countries



## Global careers

Dedicated careers support; 2-year stayback visa to work in Ireland





# **Career Opportunities**

Our graduates would typically follow careers in structural engineering consultancy, engineering contracting, construction management, and project planning both in Ireland and abroad. Employed at master's level, graduates can expect more responsibility, and faster professional progression, earlier in their careers. Graduates have progressed to career opportunities in a broad range of internationally recognised companies including: Roughan O'Donovan, Arup, Sisk, Jacobs, RPS, OCSC, Walls, Ward & Burke, and Mott McDonald amongst others.

## **Graduate Profile**

Sanskruti Umesh Wankhade Site Engineer, Cairn Homes



## **Applicant Profile**

- Applicants must hold a bachelor's degree in Civil or Structural Engineering with a minimum upper second class honours (NFQ level 8) or international equivalent.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.
- Students who do not meet the IELTS requirement may wish to consider taking the Pre-Sessional or Pre-Master's Pathway. Full details https://www.ucd.ie/ alc/programmes/pathways/

## International Fees and Scholarships

Tuition fee information is available on www.ucd.ie/fees. Please note that UCD offers a number of graduate scholarships for full-time, self-funding international students, holding an offer of a place on a UCD master's programme. Please see www.ucd.ie/global/scholarships/ for further information.

## Related Master's Programmes of Interest

- MEngSc Electronic & Computer Engineering
- MSc Advanced Software EngineeringMSc Computer Science NL
- (Negotiated Learning)
- MSc Information Systems

I have always wanted to specialise in Structural Engineering, and I believe UCD's graduate taught programme provides the essential knowledge through its comprehensive course modules. I found the modules very informative, including all the structural modules (Design of Structures, Analysis of Structures, Structural Dynamics), Advanced Materials, and Professional Engineering Management. The best part of the course was the "Engineering Design Project" module, where students gained practical knowledge by working on projects with external professors who have extensive industry experience, making it a meaningful experience. Moreover, the faculty members have been consistently supportive and helpful throughout my studies. Their guidance has been instrumental in my academic journey, ensuring I receive the necessary assistance whenever required.

During the summers, I dedicated my focus to my thesis project under the guidance of professors. As an international student from India, I found the faculty to be incredibly encouraging.

#### CONTACT US

Irish/EU Students - Katie O'Neill E: katie.oneill@ucd.ie T: +353 1 7161781 W: www.ucd.ie/eacollege International Students - E: eamarketing@ucd.ie/internationalenquiries@ucd.ie T: +353 1 7168500 W: www.ucd.ie/global

#### APPLY NOW

This programme receives significant interest so please apply early online at **www.ucd.ie/apply**