



University College Dublin
Ireland's Global University



MEngSc ENGINEERING MANAGEMENT (ONE YEAR FULL TIME)

The MEngSc Engineering Management programme offers a unique opportunity for engineering students to deepen their knowledge of the areas of business and management and is open to engineering students of all disciplines. This programme is aimed at students who have already completed a bachelor's degree in Engineering and wish to embark on successful careers in the management of global engineering and technology firms. This one-year master's degree provides grounding in operations, quality, marketing, systems planning, and analysis while building on students' technical expertise to develop the next generation of industry leaders.

We seek to develop creative problem solvers who can critically analyse problems in a business context, and propose and develop practical and feasible solutions.

Our teaching methods and learning environment are highly interactive and varied, and include lectures, workshops, tutorials, labs, and practical exercises.

Group-based modular projects and a final applied company-based consultancy project enable students to integrate the covered theoretical knowledge with practice. All these unique features are the key elements in the programme's design and success over the years.

ESTABLISHED INTERNATIONAL INDUSTRIAL CONNECTIONS

This programme is delivered by the School of Mechanical & Materials Engineering, which has more than 50 years' experience in teaching Engineering Management. The School has well-established industrial links both nationally and worldwide.

WHY STUDY AT UCD?



Tradition

Established 1854, with 160 years of teaching and research excellence



Global profile

UCD is ranked in the top 1% of higher education institutions worldwide



Global community

Over 8,500 international students from over 130 countries study at UCD



Global careers

Degrees with high employability; dedicated careers support; two-year stay-back visa (for non-EU students)



Safety

Modern parkland campus with 24-hour security, minutes from Dublin city centre

COURSE CONTENT AND STRUCTURE

90 credits
taught
master's

50 credits
engineering
modules

20 credits
business and
statistics modules

20 credits
applied research
project

Modules include:

- Design & Innovation
- Applied Research Project
- Technical Communication (Option)
- Operations Management
- Engineering Decision Support Systems
- Business Information Systems Management
- Marketing Management
- Systems Analysis & Improvement
- Supply Chain Design & Analysis
- Engineering Project Management - Tools & Techniques
- Introduction to Manufacturing
- Simulation & Robotics
- Quantitative Methods for Engineers
- Professional Engineering (Finance) (Option)

Please see online for a full list of modules.

Applied research project:

This programme offers a unique opportunity to the students to apply their acquired knowledge during the first two trimesters to a practical company-based problem during the summer trimester. The project topic may be of direct relevance to a company sponsor who will outline their project requirements in consultation with the student team and the academic supervisor. To prepare for their project, each student will participate in a series of workshops designed to develop consultancy and research skills. This summer project provides immense opportunity to the students to demonstrate their capabilities while working with a company, increasing their chances of employment with the same company.





CAREER OPPORTUNITIES

Career opportunities are very broad as the MEngSc Engineering Management students are not narrow technical specialists but “T-shaped” individuals combining specialist skills with a broad understanding of the business environment. Apart from the usual engineering discipline-specific job opportunities based on their bachelor’s degree, the students accomplishing this one-year master’s degree will be equipped with enough knowledge and experience to pursue a career related to the job positions, such as quality analyst, data analyst, operations analyst, supply chain planner, project management and continuous improvement analyst. The acquired skill sets are invaluable when embarking upon careers in many sectors including energy, consumer goods, medical technology, management consulting, ICT and automotive. Prospective employers include Accenture, Intel, RPS, SAP, Maxim Integrated, Boston Scientific, Microsoft, PwC, Deloitte, Accenture and many more.



APPLY NOW

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

ENTRY REQUIREMENTS

- A 4-year bachelor’s degree with a minimum upper second class honours (NFQ level 8) or international equivalent in a relevant Engineering programme.
- 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.
- A detailed explanation of your interest in the programme must be provided.
- Students who do not meet the IELTS requirement may wish to consider taking the Pre-Sessional or Pre-Masters Pathway. Full details <https://www.ucd.ie/alc/programmes/pathways/>

SCHOLARSHIPS

- Dedicated scholarships for non-EU students
 - Apply for University Scholarship www.ucd.ie/global/scholarships/
 - Apply for College scholarship www.ucd.ie/eacollege/study/nonescholarships
- Approved by US Dept of Education for federally supported loans

WORK IN IRELAND

Option to stay in Ireland to seek employment and/or work for 2 years after graduating.

FEES

Fee information is available at www.ucd.ie/fees

RELATED MASTER’S PROGRAMMES OF INTEREST

- ME Engineering with Business
- MSc Management



GRADUATE PROFILE

Abhijit Santhanam
Boston Scientific

As my career progressed, there was an increase involvement in functions such as finance, quality and strategy. This made me to search for a master’s degree with a focus on management principles in engineering. With a few choices in Europe, I was inclined towards the engineering management program in UCD. With UCD’s worldwide reputation and the program structure, made UCD an obvious choice. I completed my master’s program in 2019. The program offers best of both, engineering and management worlds. With core engineering modules like Production system analysis to management modules like Marketing management and Business Information Systems. There was a lot of focus on practical and industry-based learning, with case studies and business simulations. The modules are delivered by faculty from the UCD College of Engineering and Architecture, UCD School of Business and leading industry practitioners. I strongly recommend international students to consider master’s in engineering management as an academic option. I hope to see you all in UCD.

CONTACT US

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