



University College Dublin
Ireland's Global University

ME MANUFACTURING ENGINEERING (double degree) (TWO YEARS FULL TIME)

This masters merges manufacturing technical and technological aspects with innovation and entrepreneurship teaching, in the context of the global societal challenges, such as circular economy, industrial innovation and sustainability.

It is a double degree programme, coordinated by EIT Manufacturing Master School, between UCD and other universities around Europe i.e. Aalto University, Finland, Ecole Centrale de Nantes (ECN), France, Politecnico di Milano (POLIMI), Italy, University of Applied Sciences and Arts of Italian Switzerland (SUPSI),

Switzerland, Institut Polytechnique de Grenoble (Grenoble INP), France and and Vienna University of Technology (TU Wien), Austria. The first year is spent at UCD (entry university) and the second year is spent at another (exit) university as listed above.

Students choose one of three minors offered as part of the programme i.e. Additive Manufacture for Full Flexibility, Zero-Defect Manufacturing for a Circular Economy, and Platforms for digitalized value networks.



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

EIT MANUFACTURING MASTER SCHOOL

EIT Manufacturing (EITM) Master School is part of EIT Manufacturing, a European association of leading Universities, industries and research centres linked to the manufacturing sector. EITM Master School and its partner universities offers a unique and excellent high education programme, with international and inclusion mindset, to graduate the next generation of Manufacturing Innovators and Entrepreneurs. On completion students receive two degrees directly from entry and exit universities and the EIT label certificate from EIT Manufacturing, as international recognition of their high-quality education curriculum.

COURSE CONTENT AND STRUCTURE

120 credits
taught master's

90 credits
taught modules taken between 2 partner universities

30 credits
thesis project undertaken at exit university

Modules offered by UCD include:

- Manufacturing Engineering
- Computational Continuum Mechanics
- Advanced Metals & Materials Processing
- Medical Device Design
- Mechanical Engineering Design
- Technical Communication
- Advanced Polymer Engineering
- Materials Science and Engineering
- Engineering Decision Support Systems
- Professional Engineering (Finance)
- Professional Engineering (Management)
- Engineering Project Management
- Supply Chain Design & Analysis
- Operations Management
- Quantitative Methods for Engineers

Modules offered will depend on minor stream chosen and the Entry-Exit universities combination

The 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 30 ECTS Thesis project module enable students to integrate theoretical knowledge with practice.



