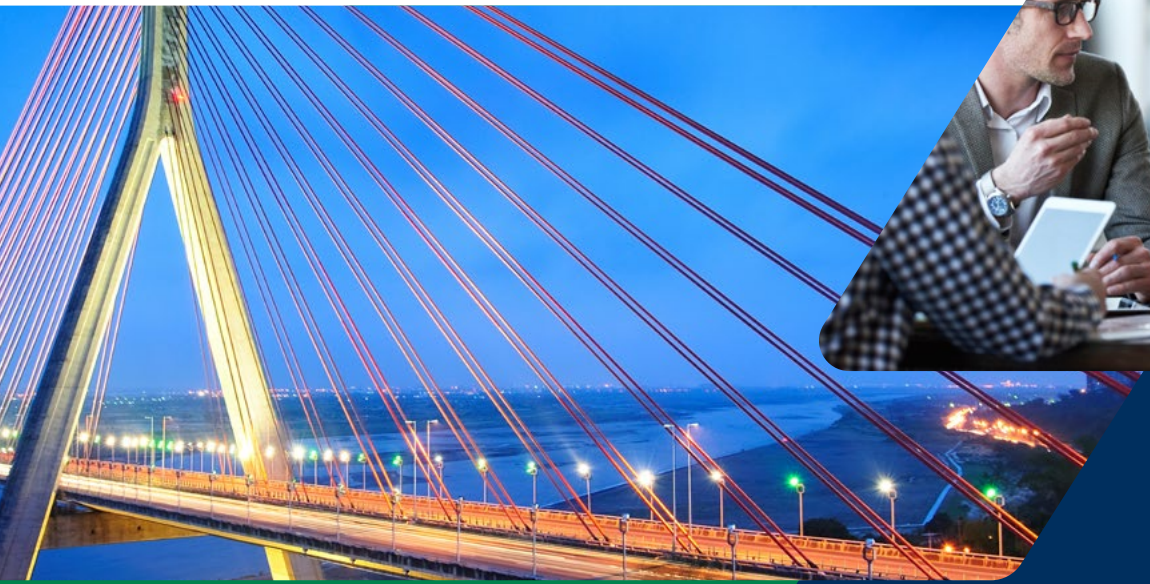
UCD College of Engineering
and Architecture



Master of Engineering Management

Introduction

The degree of Master of Engineering Management was introduced in 2009 to replace the long established Master of Industrial Engineering (MIE) degree. The MIE degree was established in UCD in 1967 and the first graduates were conferred two years later. In its 40 year existence, the MIE programme saw many graduates emerge who adopted leading roles in Irish enterprises. The MIE continually evolved over the years, maintaining its relevance in a very fast changing world. To reflect the wide scope of the degree programme, the title of the degree was changed to Master of Engineering Management, ME (Mgmt). Since 2011, graduates of the programme are awarded this degree. It focuses, like its predecessor, the MIE, on linking engineering with management and business topics to produce graduates who quickly move into leadership positions within their companies.

Master of Engineering Management >

Programme Vision & Values Statement

Purpose

Designed for professionals with three to five years of industry experience and a background in engineering, technology, science or mathematics, this two year part-time programme is for individuals with the ambition to progress to senior management and leadership roles in global engineering and technology enterprises.

Values

We aim to develop technically oriented leaders and therefore encourage our students to be critical thinkers, creative problem solvers, to communicate in the language of business and move from thinking tactically to thinking strategically, while always cognisant of the economic, environmental and social implications of their actions.

Nature of the learning environment

The nature of the learning environment is highly collaborative and experiential. The part-time nature of the programme allows participants to continue in employment and to quickly apply their newly acquired skills in an experiential manner. Through the discussion based classroom environment, there is a high degree of learning from peers across different industry sectors and organisation types.

Key approaches to teaching, learning and assessment

We seek to develop an active learning approach through lectures, seminars, workshops and projects. There is extensive use of case studies and business simulations. There is a strong orientation towards team work and collaborative industry based assignments.

I was looking to progress my career, and for a course that would enable me to bridge the gap between engineering and senior management. An engineer's approach to problem solving is very well regarded in the business world, and this course builds on those strengths while developing the other business skills required.

Just as important, the lecturers on the course come from industry, therefore providing real world application of the financial and professional theory covered. This course without doubt played a direct role in my career development.

Cathal Cavanagh
Blackrock Clinic

Programme Outcomes

Knowledge

Enhance your ability to operate at the highest level in the global knowledge economy by taking the Master of Engineering Management degree. It will allow you to draw on engineering, business and human sciences in a programme designed to bridge the divide between engineering and business.

Skills

Focus on building skills as a pathway to career success. In addition to course learning in operations and engineering management, interaction with your peers from a range of engineering disciplines assists in building your breadth of knowledge.

Business

Gain a deep understanding of the world of business by covering a wide range of business topics from the functional to the strategic.

People

Learn best practice in human and organisational behaviour. People management remains the key to improving organisational effectiveness.

Analysis

Sharpen your analytical skills with a view to improved decision making.

Innovation

Equip yourself to deal professionally with the challenging areas of innovation and technological development.

"The MEM initially appealed to me as it provided me with the opportunity to learn a diverse range of management skills, from project management to people management, whilst having an engineering and operational focus. The diverse group of subjects have given me a higher level, strategic outlook on business and the competency to engage at higher levels of management but also immediately benefited my role as a Product Development Engineer. The course was highly enjoyable and very rewarding and I have no doubt will serve me well in the future. I wouldn't hesitate in recommending the MEM course to anyone interested."

Martina Moyne
Nypro Healthcare

Programme Structure

Lectures

The Master of Engineering Management degree programme takes place over two academic years (four academic semesters). Semesters each year are from mid September to mid-December and mid-January to early May. There is an average of nine hours of lectures per week on Friday afternoons and evenings and Saturday mornings.

Learning Process

The learning process consists of formal lectures augmented by project work, case studies and other class assignments. The variety of backgrounds and experience of our students stimulates class interaction and peer learning.

Modules

Over the two years of the programme, a total of 18 modules are taken from the listing to the right, nine modules per academic year. In the second year students have the option of completing an applied work related project instead of three individual modules.

Operations
Operations Management
Quality Management
Project Management
Business Systems Design

Business
Engineering Cost Analysis
Marketing
Finance
Economics

Analysis
Engineering Statistical Analysis
Decision Analysis

People
Behaviour, Leadership and Change
Managing Human Resources
Managing Negotiations
Technical Communications

Strategy
Global Strategic Management
Operations Strategy
Design and Innovation

"I undertook the Masters in Engineering Management at UCD to develop my leadership potential. At the time I was working at management level in an engineering based organisation and after researching numerous courses felt that the MEM provide the best all round education for me.

The MEM provided me with a lot of new skills and broadened my thinking in many areas; adapting to change, thinking strategically, getting the most out of people and looking at the bigger picture. I have used these learning's directly in my job and have developed my leadership skills substantially as a consequence. After the course was completed I moved into a new role within my organisation. This role is very influential and involves substantial stakeholder and customer engagement. I have no doubt that the MEM has equipped me well to do this job and has contributed to my continuing career development and personal growth."

Maria Hayden
Eirgrid

Participants

Over the years, students from a variety of professional backgrounds have participated in the MIE and MEM programmes. Engineers of all disciplines, science and information technology graduates from all the academic institutions within Ireland and several from overseas have taken part. The company backgrounds of those participating in recent years illustrates the diverse professional backgrounds of students.

MedTech & Pharma
Abbott Medical Optics
Abbvie
Pharmaceuticals
Allergan
Amgen
Bausch & Lomb
Becton Dickinson
Biotrin
Braun, Oral B
Boston Scientific
Bristol Myers Squibb
Centor Biologics
Leo Laboratories
Leo Pharma
Nypro Healthcare
Pfizer
Rottapharm
Schering Plough
Screentech
Servier
Siemens
Swords Laboratories
Takeda

ICT
BT
Data Exchange
Ericsson
Europe
Honeywell
Hewlett Packard
IBM
Intel
Lucent
Marconi
Maxim Integrated
Siemens
Thermawave
Xerox
Xilinx
Valeo Vision Systems

Other manufacturing
Bose
Burnside
CRH
Diageo
Dromone Engineering
Henkel
Irish Cement
Kingspan Environmental
Renley
Smith's Detection
Unilever
Wavin

Public services
Defence Forces
Department of Transport
Dublin Bus
Dublin City Council
Enterprise Ireland
Eirgrid
ESB
ESBI
Irish Aviation Authority
Mayo County Council
Meath County Council
Tallaght Hospital
Irish Rail
Air Accident Investigation Unit
Kildare County Council
South Dublin County Council
Mater Hospital
ComReg

Engineering services
AABB
BOC Gases
DPS
EarthTech
GEA Process Technologies
Grundfos
Hugh Munro & Co
Kone
McArdle McSweeney
Mercury Engineering
Project Management Group
Pratt and Whitney Aviation
O'Connor, Sutton, Cronin
O2
SR Technics
Standard Control Systems
Veolia
Alstom
Mott MacDonald
Open Hydro
Roadbridge

Entry Requirements

Eligibility

We welcome applications from candidates with a primary degree in Engineering, Technology, Science or Mathematics (STEM).

Typically participants will have 5 years industry experience since graduation. Participants are selected after an interview.

Enquiries

If you require further information, please contact:

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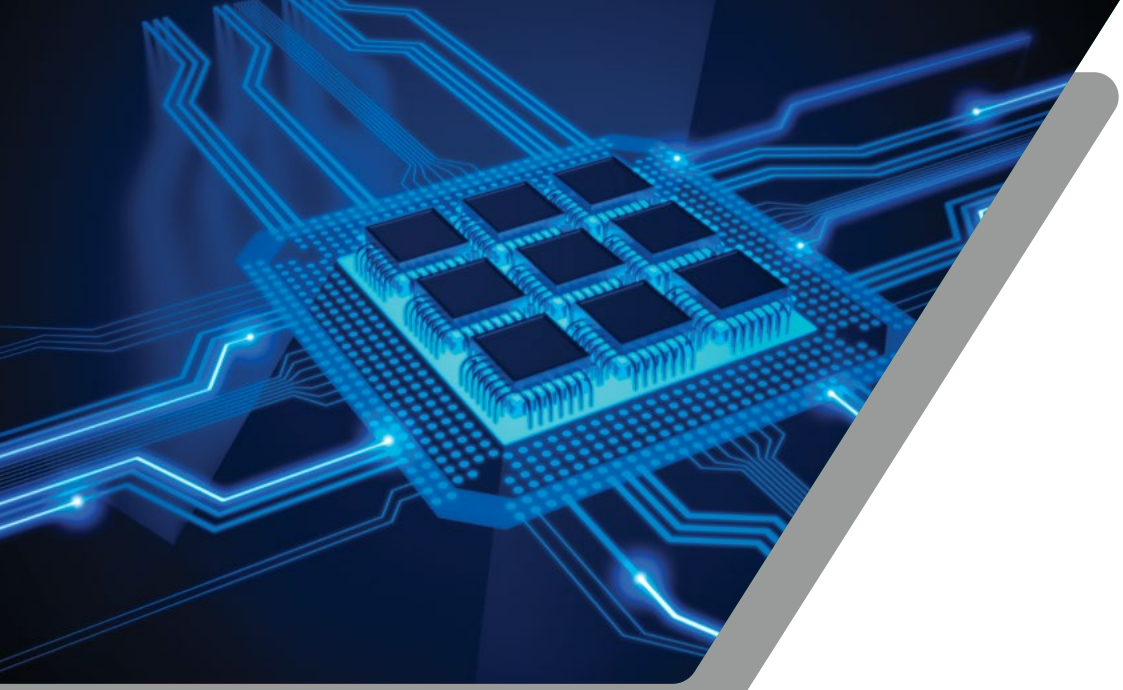

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