

No Honours Maths? No Problem!

Entry requirements for the B.E. are:

Irish, English, Other Language, Laboratory Science subject (e.g. Physics, Chemistry, Biology) plus any other subject.
and
Mathematics (C3 or better in Higher Level maths)
or a Pass in the Engineering Entrance Examination

The **engineering entrance exam** takes place each August and special classes can be provided during July to help with your studies.

You will still compete with other students on the basis of your CAO points but with Industrial Engineering having more places available you have a high likelihood of being offered a place.

What do you need to do?

Send us your email address and phone number and we'll keep you informed of important information and dates regarding the special maths exam.

Phone (091) 492223 or
Email: mary.hardiman@nuigalway.ie

www.nuigalway.ie/industrial_engineering

CAO Reference: GY404: Industrial Engineering

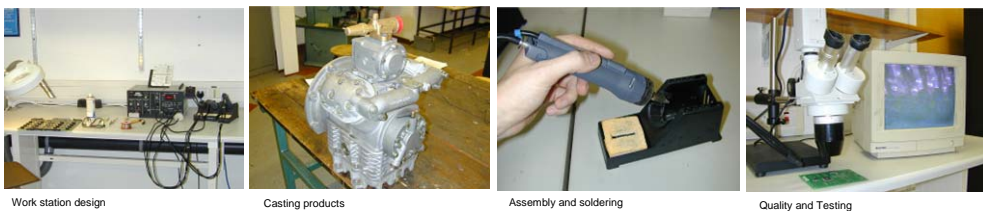
Industrial Innovation Engineering

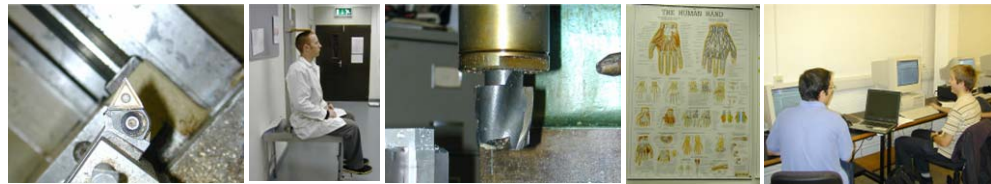


New Topics

Design and Make | Design Methods | Visual Communications | Applied Innovation | Design Ergonomics | Project Management | Technology Innovation | Entrepreneurship

Project Based Learning





Cutting Chip design Posture assessment Tool set design Human anatomy and risk Collaborative Work

Industrial Engineering is changing. Industry is now looking for more innovation. New industrial engineers are intimately involved in the innovation that creates new products, the new processes that produce them and the services that deliver them. More recently in Ireland, Industrial Engineers are being demanded to drive innovation in the health care and other service sectors.

New Skills

Industrial Engineering at NUI Galway has more design and more innovation courses. These innovation skills are easily transferred between industries and increasingly into services. New topics include:

**Design and Make | Design Methods | Visual Communications| Applied Innovation | Design Ergonomics
Project Management | Technology Innovation | Entrepreneurship**

First Year

First year is primarily a pre-Engineering year in common with all other B.E. programmes. It exposes you to basic science subjects, computing, technical drawing and engineering science. There are factory visits, laboratory practicals and tutorials.

Second and Subsequent Years

The second and subsequent years of this four-year degree focuses largely on Innovation, Design Engineering, Management Science, and Computer Systems. You develop Design skills, Communications skills and Presentation skills. Some courses are taught through continuous assessment only, allowing students to spend most of their time solving problems on projects. Second year introduces topics such as Materials, Machines, Production Processes, Operations, Product Design, and Organisations. In third year, the focus is on Industrial Management; Computer Hardware, Programming and Applications; Engineering Design and Manufacturing. Final-year topics include Project Management, Logistics, Applied Innovation, Quality Assurance, Technology Innovation and Entrepreneurship and Design of the Man-Machine Interface. You also have the opportunity of studying a European Language. All students also do a placement in third year and do a major project in final year

Masters Year

Graduates can now choose to extend their learning into an additional Masters year where you will take a choice of additional advanced courses and also complete a major project in your chosen area of study.

Project Based Learning

Many of our courses now include 'project based learning' where you will work in teams to build special projects. Various projects require you to design and make special devices, design new processes for making devices and practice what you learn in lectures.



Injury assessment Punching press Team Work Robotic assembly arm Drilling and fabrication



05 Experts onsite to ensure quality 06 A pristine assembly line 07 Quality control of production 08 Efficient workflow

Wanted

University Level 8 Professional Engineers

Creative thinkers who can think outside the box to create new products; the processes that produce them; and the services that deliver them.



01 Unpacking a problem 02 Prototype the user experience 03 Ceremony: business card pyre concept 04 Creating logical pathways

The career opportunities for industrial engineers have never been brighter and graduates have never been more important for the Irish economy. Ireland now demands creative thinkers who understand the broader picture of how product and services are designed and delivered. Industry and services are demanding qualified graduates in the fields of operations management, design and innovation, health and safety, quality management and productivity engineering. Significant growth in the industrial sector has led to excellent career opportunities. This is now expanding into the service sector and in particular the health care services.

Industrial Design Engineer | Innovation Manager | Engineering Manager | Operations Manager | Safety Engineers | Health Care Operations | Systems Analysts | Product Entrepreneur | Systems Manager | Quality Manager | Supply Chain Manager



01 Injection molding tool 02 Mass production of PDA accessories 03 Faucet parts 04 Tooling is not for the faint of heart