

CAO Change of Mind

The deadline for the CAO Change of Mind is fast approaching. If we in Electronic Engineering in DCU can help in any way as you make important decisions about your future, please let us know. The economic landscape has changed considerably since you first made your CAO choices. Even though the long term prospects for most career choices are pretty stable, people's perception of these is quite volatile, so it may pay to relook at your priorities – you have until July 1st.



Why Electronic Engineering?

- Staff with engineering degrees are extremely valuable to employers. It's a highly skilled area of expertise, training students to analyse, problem solve, and hone their technical abilities.
- The term electronic engineering covers a wide range of topics and technologies at the convergence of physics, maths, applied maths and software, and in particular includes all aspects of systems and signals.
- Electronic engineering is not just about electronics - actually in DCU much of our research is in areas such as [medical applications of image processing](#)¹, [retrieving and integrating information](#)², developing the software to control the [next generation of networks and network applications](#),³ modelling and simulation of [RF propagation, circuits and devices](#)⁴, [audio and speech analysis](#)⁵.
- In EE in DCU there are also world-class research labs working in new technologies for future broadband [photonic communication systems](#)⁶ and in [nanomaterials](#)⁷.
- In spite of the well-publicised downturn in the employment market, we are consistently receiving notification of employment opportunities in companies looking for EE graduates, either specifically, or more generally for employment in the ICT area. The ESB, for example, will be employing 250 new engineers over the next four years - a significant fraction of these will be electronic engineering graduates.
- 31% of Irish Chief Executive Officers have an engineering background. This is not a coincidence and not just in technology

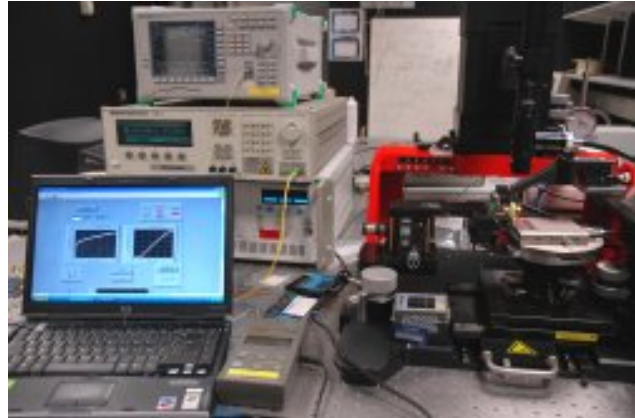
companies. Engineering prepares people to be problem-solvers and to stay at the forefront of new developments, whether in technology or business processes.

- Innovation is about turning knowledge into practical and useful systems, devices, products or services. Innovation is core to our mission in EE in DCU. We aim to give our graduates the foundation to go and make employment for themselves, if that is their inclination.

What courses are available?

The School of Electronic Engineering runs three great degree options, and also a joint degree with the School of Mechanical & Manufacturing Engineering. The first year is a 'Common Entry' to engineering – you will learn a broad base, and decide which degree you wish to enter at the end of the first year.

- [Common Entry Programme](#)⁸



- [Digital Media Engineering](#)⁹ - Digital media engineering is a branch of engineering that deals with the creation, processing, and presentation of digital content. If you play computer games, listen to music on your mobile phone or use social networking websites to keep in touch with your friends, then you're already aware of what digital media engineers have to offer. This branch of engineering has a diverse range of applications and can lead to careers in variety of interesting areas. For example, the graphics technologies used in computer game development can also be used to create advanced 3D visualisations of medical image data for use in the diagnosis of disease. All of these technologies are significantly changing the way we live our lives. If you think you want to be a part of this change then digital media engineering may be the degree for you. Click [here](#)¹⁰ to find out about what you'll be studying.
- [Information & Communications Engineering](#)¹¹ - Communication in today's world is *almost* instantaneous, so what's the next advancement? In the ICE degree you'll learn to harness the technologies used in mobile internet access, VoIP and IP television and much more. For the course details, [click here](#)¹².
- [Electronic Engineering](#)¹³ Take a look at your favourite high-tech devices - mp3 players, mobile phones, digital televisions, laptop computers and games consoles - Electronic Engineers invent and design all of these things (and much more besides). Why be content using these devices when you can build and design the next generation models? Find out more [here](#).¹⁴
- [Mechatronic Engineering](#)¹⁵ Anywhere there is a need for a moving part or system under electronic or software control, the knowledge, problem-solving skills and design capabilities of the Mechatronic engineer will be core to the success of that project. Mechatronic engineers use aspects of electronic engineering, mechanical engineering and software engineering to improve efficiency, speed, and reduce costs of developed and developing technologies. This course is run in partnership with the School of Mechanical and Manufacturing Engineering. For the Mechanical and Manufacturing Engineering courses offered at DCU - [click here](#)¹⁶.

Maths Issues?

If the Maths exam didn't go quite according to plan, don't forget to check out the [Open Opportunities](#)¹⁷ in Engineering option . Registration on the Open Opportunities in Engineering Course is based on Leaving Certificate results but takes place outside the CAO process. Admission is based on an interview, during which DCU Engineering staff will attempt to identify elements in an applicant's history that would indicate that they would have a reasonable chance of succeeding on a challenging Honours Engineering programme.

- [Open Opportunities in Engineering](#)¹⁸

