MSc in Electronic and Computer Technology (Internet of Things)

A flexible pathway for busy ICT professionals and engineers to accelerate their careers in the Internet of Things (IoT). Fees will be part funded by the Technology Ireland Software Skillnet.

IoT is a computing concept describing the interconnectivity and collaboration of a wide variety of everyday physical objects connected via the internet. IoT technologies are enabling a wide range of business opportunities in the context of smart homes, smart cities and connected healthcare.

Ireland is a global centre for groundbreaking advancements in IoT. There is strong demand for IoT professionals, who are competent in the design, development, management and support of IoT systems.

This programme is being developed and delivered by Dublin City University (DCU).

An IDC study estimates spending on IoT technology is expected to surpass the $1 trillion mark by 2022

The **MSc in Electronic and Computer Technology (Internet of Things)** is designed to meet the demand for a new kind of IT specialist, those who can:

- engineer new interactive products - things;
- acquire, fuse and process the data from things;
- interact with, and interconnect these things as part of larger, more diverse, systems.

Nearly 70% of businesses are looking for IoT experts

The demand for IoT specialists has exploded, opening **exciting job opportunities for progression**

The next IT jobs boom will be driven by the **Internet of Things**

Delivery

- Part-time over 2 years
- Online with some on-campus workshops
- Online forums for materials, references and learning support
- Interaction with IoT thought leaders
- Professional network of peers working in IoT
- Flexible choice of modules to fit your background and interests
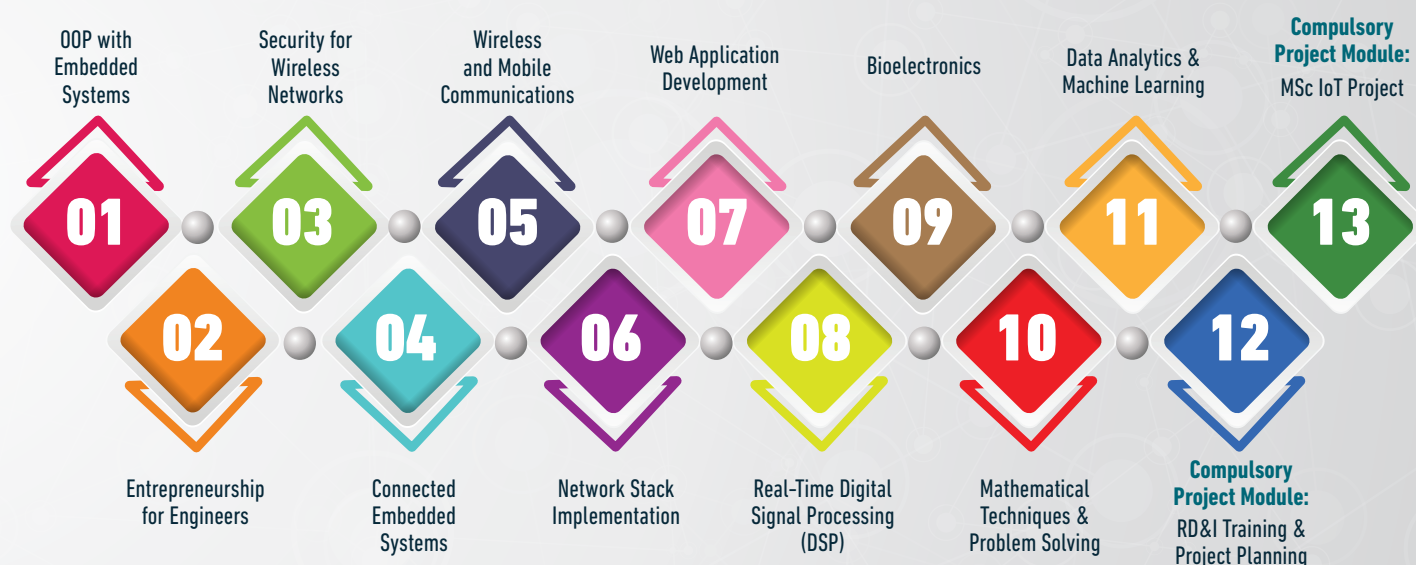
Who should apply

- Companies with emerging IoT teams who want to build integrated IoT competence
- Engineers who want to pursue career opportunities in IoT
- ICT professionals who are, or will be, assigned to IoT teams

Programme Structure

Applicants can choose from 9 of the following modules (with some constraints)

01 OOP with Embedded Systems
02 Entrepreneurship for Engineers
03 Security for Wireless Networks
04 Connected Embedded Systems
05 Wireless and Mobile Communications
06 Network Stack Implementation
07 Web Application Development
08 Real-Time Digital Signal Processing (DSP)
09 Bioelectronics
10 Mathematical Techniques & Problem Solving
11 Data Analytics & Machine Learning
12 Compulsory Project Module: RD&I Training & Project Planning
13 Compulsory Project Module: MSc IoT Project

Entry Requirements

The minimum entry requirement for entrants is a 2.2 (GPA 2.5 or equivalent), in a Level 8 primary degree in Computing/Engineering or a related discipline. Applicants without these entry requirements may be offered the option of undertaking a 'qualifier', which is a subset of the programme modules that would allow them to continue with the main programme with full credit.

How To Apply

Applications are now being accepted for this programme which will start during the last week of January with an application closing date of January 13th. In the first instance applicants should submit their CV directly to **iot@softwareskillnet.ie**. After initial screening applicants will be advised on next steps.

For more detailed information about this course please visit **softwareskillnet.ie/masters-in-internet-of-things/**

An Roinn Oideachais agus Scileanna
Department of Education and Skills

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