Computer and Electronic Systems

University of Strathclyde

Content

What do 3D TV, digital cameras, smartphones, the iPad and sports instant replay have in common? They're all examples of technology which have been developed combining skills from both Computer Science and Electronic Engineering. These subjects have become increasingly intertwined in recent years, so there is a need for engineers with the ability to create and embed intelligence into the products and systems of the future.

Engineers with operational and technical expertise in both electronics and software engineering are needed to design the next generation of computer apps, interactive vehicle robotic agents that monitor driver information and respond accordingly, or digital cinema technology. This degree is designed to produce these skilled professional engineers.

Year 1:
Electronic Circuits; Maths; Computer Science and software engineering; practical labs and project work introducing design and build activities.

Year 2:
You learn a range of programming languages (Java, C++, C, Ruby, Python); Computer Communications; Engineering Design Techniques; Hardware and Software Analysis.

Year 3:
Specialist topics such as Artificial Intelligence, Embedded systems and Computing Architectures.

Year 4: Individual design project in your chosen specialism and choice of classes including Digital Forensics, Laser Systems and Information Security; year abroad for those on the MEng International Study stream.

Start Date

October

Qualification

Degree

Study Method

Full time

Award Title

BEng Hons

UCAS Code

GH46

Course Length

4 years

Faculty

Faculty of Engineering

Department

Electronic and Electrical Engineering

Entry Requirements

2027 entry requirements

Standard entry:
5 Highers at AAAB including Maths at A and Engineering Science or Physics plus English at National 5 (Higher preferred). Advanced Highers Maths and Physics recommended.

Widening access entry:
4 Highers at BBBB including Maths and Engineering Science or Physics plus English at National 5 (Higher preferred). Advanced Highers Maths and Physics recommended.

A Foundation Apprenticeship is accepted in place of a non-essential Higher.

SCQF Level

10

Progression Routes

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Combination Courses

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Website

www.strath.ac.uk