

## Electronic and Digital Systems

University of Strathclyde

### Content

#### Year 1:

You learn about the design and analysis of analogue and digital circuits, the principles of software engineering, physical electronics and processing systems. You also study maths for computing and engineering and complete group-based laboratory projects such as how to design wireless communications to gain practical training in core engineering applications and project management skills.

#### Year 2:

The study of analogue and digital electronics continues, enhanced by an introduction to basic concepts in signal processing. Further study includes the design and analysis of electrical and microcontroller-based instrumentation systems, coupled with further classes in advanced maths. All classes are supported by practical and team-working activities.

#### Year 3:

You'll begin to develop specialist engineering skills through advanced classes in on digital electronics systems, computing software and networks.

#### Year 4:

You can choose to either spend fourth year at a partner institution abroad or remain at Strathclyde. The home curriculum focuses on developing advanced technical skills on the design of real world analogue and digital systems, signals and sensors, and an understanding of new approaches such as optical computing and nanotechnology. You'll also undertake an individual, industry-focused research project to help you gain the project management skills needed by professional engineers.

At the overseas partner, you'll study an approved curriculum that is equivalent to the home one, and all the subjects/credits you pass count towards your degree at Strathclyde. You'll not be required to take extra classes on returning.

The choice of which partner is yours – we offer opportunities in Europe through Erasmus or further afield through our international exchanges to USA, Canada, China, Singapore, Australia & New Zealand. To give you some ideas, take a look at our latest international exchanges list.

#### Year 5:

In Year 5 you'll have the opportunity to develop your team-working skills through a multidisciplinary group project. This project will have a strong industrial influence and provide you with the opportunity to utilise both your hardware and software skills by developing a fully functioning system, which you're required to demonstrate at an internal business tradeshow/exhibition at the end of the year.

In addition to the project, you'll select modules from a range of advanced electrical, electronic and software application areas.

## Start Date

October

## Qualification

Degree

## Study Method

Full time

## Award Title

MEng

## UCAS Code

H690

## Course Length

5 years

## Faculty

Faculty of Engineering

## Department

Electronic and Electrical Engineering

## Entry Requirements

2023 entry requirements

Standard entry:

5 Highers at AAAAB including Maths at A and Engineering Science or Physics plus English at National 5. Higher English preferred. Advanced Higher Maths and Physics recommended.

Widening Access entry:

4 Highers at AAAB including Maths and Engineering Science or Physics plus English at National 5. Higher English preferred. Advanced Higher Maths and Physics recommended.

## SCQF Level

11

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

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## Website

[www.strath.ac.uk](http://www.strath.ac.uk)