

Electronics and Electrical Engineering

University of Edinburgh

Venues

King's Buildings Campus

Content

Year 1

You will learn the fundamental concepts in electronics and electrical engineering that provide the basis for more advanced study in later years, including a project laboratory. This is supplemented by important mathematics allowing the engineering concepts to be properly explored and explained.

There is also an opportunity to select from a wide variety of courses from across the University, allowing you to widen your interests.

Year 2

The broad area of electronics and electrical engineering is broken down in Year 2, so that you will study a wider range of courses reflecting the types of engineering often encountered. You will study courses in analogue circuit design, digital system design, microelectronic devices, communication systems and power engineering.

Alongside these courses are hardware project laboratories supporting the taught material and a practical course in software programming. Mathematics courses include some of the more advanced mathematical techniques necessary.

Industrial management is also taught so graduate engineers can be well prepared for all aspects of their future careers.

Year 3

The thematic areas developed are continued into Year 3. You will also learn about electromagnetics and control engineering. There are project laboratories in digital systems design, analogue mixed signal design and embedded software, and there is also a laboratory in electrical machines and another in control engineering.

You will learn about the economic and technical aspects of supplying power in the Power System Design Group Project.

Year 4

You will continue to develop your skills in those themes where you have developed a keen interest in previous years by selecting from a range of option courses. Courses in bioelectronics are also available. At least one third of the year is practical, with some of the option courses providing additional practical experience.

You will work on your individual honours project throughout the year, and it forms the single most important practical work of the programme.





You will be working with a project supervisor, and your project will probably be linked to the research activity of the supervisor, meaning you are exposed to, and have opportunity to contribute to, the research output of the School.

Start Date
September
Qualification
Degree
Study Method
Full time
Award Title
BEng Hons
UCAS Code
H600
Course Length
4 years
Faculty
College of Science and Engineering
Department
Engineering
Entry Requirements
2023 entry requirements

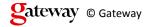
Standard entry:

4 Highers at AAAB (minimum) but typically AAAA (by end of S5 preferred) including Maths at A and one from Biology, Chemistry, Computing Science, Engineering Science or Physics (preferred) plus Engineering Science or Physics at National 5 at B and English at C.

Widening access entry:

4 Highers at AABB (by end of S6) including Maths at A and one from Biology, Chemistry, Computing Science, Engineering Science or Physics (preferred) plus Engineering Science or Physics at National 5 at B and English at C. Highers at BBB must be achieved in one sitting S4-S6.

For direct entry to year 2 you would require 2 Advanced Highers at AA including Maths and one other subject plus 2 Highers at AB including Physics or a technological subject.





SCQF Level

10

Progression Routes

 ${\it ``Progression Routes"}$

Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

Address

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