Electronic and Software Engineering

University of Aberdeen

Venues

Old Aberdeen Campus

Content

This exciting new programme delivers the ideal marriage between electronic engineering and software engineering, allowing graduates to pursue a wide range of engineering interests and career choices. You will use your imagination, creativity and knowledge to provide society with the complex electronic systems it needs as well as the software required to operate these systems optimally.

In your future career you may design the machines that supply our energy needs, digital control systems for aircrafts, internet-enabled sensors, design complete computer systems on a silicon chip, photonics to instrument the ocean depths, create stunning electronic displays, or design the latest communications satellite or mobile phone.

Year 1: Principles of Electronics; CAD and Communications in Engineering Practice; Fundamentals of Engineering Materials; Engineering Mathematics 1; Fundamental Engineering Mechanics; Electronics Design.

Year 2: Fluid Mechanics and Thermodynamics; Process Engineering; Engineering Mathematics 2; Design and Computing in Engineering Practice; Electrical and Mechanical Systems; Electronic Systems.

Year 3: Control Systems; Signals, Systems and Signal Processing; C/C++ Programming; Electrical Power Engineering; Digital Systems; Communications Engineering 1; Electrical and Electronics Engineering Design; Engineering Analysis and Methods 1A; Project and Safety Management.

Year 4: Sensing and Instrumentation; Electrical Machines and Drives; Computer and Software Engineering; Communications Engineering 2; Individual Project (MEng/BEng); Group Design Project (BEng).

Year 5: Robotics; Advanced Control Engineering; Optical Systems and Sensing; Renewable Energy Integration to Grid; Mathematical Optimisation; The Engineer in Society; MEng Group Design.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MEng

UCAS Code

H6H4

Course Length

5 years

Faculty

Physical Science

Department

Engineering

Entry Requirements

2026 entry requirements:
4 Highers at AABB including Math and Engineering Science or Physics plus National 5 English.

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

SCQF Level

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Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

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Website

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