Electrical and Electronic Engineering with Renewable Energy

University of Aberdeen

Venues

Old Aberdeen Campus

Content

Electrical and Electronic Engineering provides core enabling technologies for the modern world. From power systems that harnesses the sun's energy to power our sustainable cities and communication systems that allow high-speed information exchanges over inter-planetary distances to miniature robots that deliver medications to a targeted region of the human body and tweezers that manipulate individual atoms to create high-precision machines and components - are all results of phenomenal electrical and electronic engineering endeavours.

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

H6H6

Course Length

5 years

Faculty

Physical Science

Department

Engineering

Entry Requirements

2027 entry requirements:
4 Highers at ABBB 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

11

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

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Website

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