

# Electrical and Electronic Engineering with Robotics

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

H6H7

## 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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Aberdeen City  
AB24 3FX

## Website

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