Mechanical Engineering

University of Aberdeen

Venues

Old Aberdeen Campus

Content

Mechanical engineers design, manufacture, operate and maintain a wide variety of products, using knowledge and methods from physics and maths with creativity, problem solving and team work. Virtually every product in the modern world has been shaped in some way by a mechanical engineer, from everyday items to new technologies.

The world needs more mechanical engineers to help tackle some of the biggest issues of today. This includes providing low-cost, sustainable energy to power our homes and industries, efficient and sustainable transport solutions to help keep the world connected and machines to increase yields and reduce waste in agriculture and food production.

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; Solids and Structures.

Year 3: Stress Analysis A; Engineering Materials; Fluid Mechanics; Dynamics 1; Mechanics of Structures; Engineering Thermodynamics; Design of Mechanical Elements; Engineering Analysis and Methods 1A; Project and Safety Management.

Year 4: Fluid Dynamics; Dynamics 2; Heat and Momentum Transfer; Nonlinear Mechanics; Individual Project (MEng/BEng); Group Design Project (BEng).

Year 5: Computational Fluid Dynamics; The Engineer in Society; Advanced Composite Materials; Engineering Risk and Reliability Analysis; MEng Group Design; plus optional units.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MEng

UCAS Code

H305

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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