

Engineering Fundamentals

Learn for free, in your own time and at your own pace

The Faculty of Engineering at Strathclyde is delighted to offer the exclusive online course Engineering Fundamentals for launching from 27th March 2023.

This free course is fully funded through the Scottish Funding Council and will be taught entirely online. This course is funded by the Scottish Funding Council (SFC) which enables us to offer it to learners who are living or working in Scotland free of charge and who can apply [here](#) to enrol. If you are not domiciled in Scotland please contact eng-upskilling@strath.ac.uk to discuss what options are available to you.

The course aims to provide an insight into studying engineering and an opportunity to develop skills relevant across different engineering disciplines. Combining online materials developed by the highly acclaimed departments of Mechanical and Aerospace Engineering, Electronic and Electrical Engineering, Design Manufacturing and Engineering Management and Civil and Environmental Engineering the course aims to contextualise what it means to be an engineer, the impact engineers have on the industry and environment around them and seeks to nurture and develop engineering habits of mind.

There will be 4 main sections covering generic engineering skills relevant across a broad range of engineering disciplines:

1 Industry and the Engineer
– industry, productivity, project planning, process optimisation and supply chains

2 Engineering Mechanics
– acceleration, velocity, kinematics, structured problem solving and free body diagrams

3 Fundamentals of Electronic and Electrical Engineering – charge, current, energy & power, Kirchoff's Laws, DC circuits, digital analysis

4 Introduction to Engineering Materials
– properties of engineering materials, selection of materials, sustainability and environmental impact of material

Delivery: This course is delivered online and flexibly, running from **27th March to 19th June 2023**. You can start and end on any date in between, once fully registered, learning at your own pace in your own time. The course will be taught exclusively online through a blend of online quizzes to complete that you can attempt any number of times. There will be online tutor support available. Upon successful completion of this course, you will receive a certificate from University of Strathclyde after course closure date.

This course is suitable for:

- Senior school leavers planning to/interested in studying Engineering at college or University
- Anyone thinking about an Engineering Apprenticeship/ currently undertaking an Apprenticeship.
- Anyone interested in a Graduate Apprenticeship
- Anyone thinking about or returning to a career in Engineering

Credit Value and Pre-requisites: This course is worth 10 credits at SCQF Level 7. To be eligible you will have Nat 5 or Higher Maths/Physics/Engineering Science or equivalent qualification/ experience.

How to apply: [Apply here](#) For anyone living outwith Scotland please get in touch at eng-upskilling@strath.ac.uk to find out more about how you can register for the course.

FOR APPLICATION SIMPLY
SCAN QR CODE



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