Electrical Engineering

Glasgow Kelvin College

Venues

Springburn Campus

Content

This HND Electrical Engineering at Glasgow Kelvin College gives you the advanced knowledge, technical ability, and practical experience needed to work in one of Scotland's most dynamic and future-focused industries.

You'll explore how energy is generated, transmitted, and controlled—from traditional electrical systems to cutting-edge renewable technologies. The course blends analytical theory with hands-on lab work, developing your ability to design, maintain, and manage complex electrical systems.

Your learning includes the following.

Electrical Principles and Systems – understanding the fundamentals of current, voltage, power, and network behaviour.

Power Electronics and Renewable Energy Systems – exploring how electricity is generated, converted, and managed sustainably.

Electrical Machines and Plant Maintenance – studying motors, generators, and maintenance practices used across industry.

Control Systems and Transducers – learning how to monitor, automate, and regulate energy flow.

Electrical Installation Design – applying design principles to safe and efficient installations.

Mathematics for Engineers – developing analytical and problem-solving skills (with advanced maths options for university articulation).

Programmable Logic Controllers (PLCs) – programming and configuring automation systems.

Analogue and Digital Electronics – designing and testing control and circuit systems.

Project Work – integrating your knowledge in a major engineering project that reflects your chosen career direction or entrepreneurial interest.

Start Date

August

Qualification

HND

Study Method

Full time

Course Length

2 years

Department

Engineering

Entry Requirements

1 Higher, Maths or Physics preferred; or 1 Higher in a technological subject plus Maths at National 5; or Foundation Apprenticeship Engineering; or relevant national qualifications at SCQF Level 6.

SCQF Level

8

SCQF Points

«SCQFPoints»

Progression Routes

Appropriate Degree programmes.

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

123 Flemington Street
Glasgow
G21 4TD

Website

www.glasgowkelvin.ac.uk