Electrical and Electronic Engineering (Level 6)

Ayrshire College

Venues

Kilwinning Campus

Content

Experience a blend of theory and practical work, equipping you for further study or employment. Dive into:

Mathematics in an engineering context, enhancing your IT skills with relevant software packages; Understanding electrical principles, from basic concepts to High Voltage (HV) generators; Exploring direct current (dc) power supplies, transforming alternating current (ac) to dc, and studying transformers and rectifier circuits; Investigating earthing and various earth fault current protection methods; Developing skills in using electrical test equipment, ensuring correct and safe measurements in circuits and installations; Mastering electrical wiring, installing and terminating PVC sheathed cables, mounting electrical accessories, and wiring simple electrical installations; Studying key devices in electronics, their operations, and applications in various circuits and systems; Gaining skills in using electronic test equipment, conducting measurements and tests on analogue and digital circuits; Exploring combinational logic, delving into arithmetic circuits and data conversion circuits.

Throughout the course, build transferable Essential Skills, enhancing your effectiveness in communication, numeracy, ICT, teamwork, and problem-solving.

Start Date

August

Qualification

NC

Study Method

Full time

Course Length

1 year

Department

Engineering

Entry Requirements

4 subjects at National 5 including Maths or Physics, or SVQ Performing Engineering Operations (Electrical) at SCQF Level 5, or other relevant national qualifications at SCQF Level 5. Interview.

SCQF Level

6

SCQF Points

«SCQFPoints»

Progression Routes

Relevant HNC or Modern Apprenticeship.

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

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Website

www1.ayrshire.ac.uk