Leicester College

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Electrical and Electronic Engineering HTQ Higher National Diploma

Course Overview

This two-year part-time Higher National Diploma (HND) in Electrical and Electronic Engineering is designed for those looking to progress their engineering career while continuing in employment.

 Building on Level 4 knowledge, the course develops advanced technical understanding and specialist skills in areas such as embedded systems, industrial power and automation.

 Throughout the course, you will apply your learning through project-based work and practical activities, ensuring you develop the skills needed for real engineering environments. This prepares you for progression into senior technical roles or further study.

 This flexible programme supports career progression into higher-level roles or further study, including progression to a top-up degree.

What you will learn

In Year 1, you will focus on higher-level core topics such as professional engineering management, further mathematics, embedded systems and electrical power utilisation.

 Learning is supported through applied project work and industry-relevant activities, enabling you to demonstrate your knowledge in practical contexts. By the end of the course, you will be well prepared for progression to a degree or employment in advanced engineering roles.

In Year 2, you will build on this knowledge by studying industrial power systems, advanced electrical machines, digital and electronic principles and programmable logic controllers (PLCs).

Entry Requirements

Standard entry to this course requires successful completion of a Level 4 qualification in a related subject area, such as a Higher National Certificate (HNC) in Engineering.

 You are expected to hold GCSE English and mathematics at grade 4 (C) or above, or an equivalent qualification.

 All applicants could be invited to attend an interview to assess suitability and prior achievement.

Course Fees

For certain practical activities, you may be required to provide your own personal protective equipment (PPE).

Course Progession

This course supports progression into higher-level employment and further study within the engineering sector.

 On successful completion of the Higher National Diploma (Level 5), you may progress to a top-up degree (final year of a university programme) or other higher-level qualifications.

 Alternatively, you may choose to enter or progress within employment. The advanced knowledge and skills developed on this course are valued across a wide range of industries, including manufacturing, energy, aerospace, automotive and automation.

 Typical roles include design engineer, manufacturing engineer, project engineer or more senior technical positions within engineering organisations.

 The course is designed to prepare you for long-term career progression by developing both your technical expertise and professional skills.

What Happens Next

Step 1: Search for vacancies or apply through the college website using codes P00727 (FT) or P00730(PT). Step 2: Once submitted, your application will be reviewed by our Higher Education team. Step 3: Any external students, If your application is shortlisted, you will receive a conditional offer. Alternatively, we may contact you by phone or email to discuss your application and request any additional information if required. Internal students go straight to step 5. Step 4: Once you have met the conditions of your offer, typically in the summer prior to the course start date, you will be invited to attend the college. This will allow us to verify your certificates and complete the enrolment process. Step 5: After completing enrolment your Higher Education journey will officially begin with us.

Course Details

Course Code P00730

Start Date 20/09/2027

Study Hours Part Time

Duration 2 years

Campus Abbey Park Campus

Level 5

Apply Here