

EDEXCEL BTEC LEVEL 5 HIGHER NATIONAL DIPLOMA (HND) IN CONSTRUCTION AND THE BUILT ENVIRONMENT ENGINEERING

Programme Description

This programme delivers foundation knowledge and core skills in electrical and electronics engineering. The qualification prepares learners for employment in the electrical and electronic engineering sector and will be suitable for learners who have already decided that they wish to enter this area of work. Both theoretical and practical elements of the courses are taught within college premises in the fully equipped classrooms and laboratory of LCEM. The new BTEC Higher Nationals in Electrical and Electronic Engineering have been accredited onto the Qualifications and Credit Framework (QCF). The Edexcel BTEC Level 5 HNDs in Electrical Engineering and Electronic Engineering are qualifications with a minimum of 240 credits of which 65 are mandatory core and 175 are specialist unit.

This programme is the Higher National Diploma (HND) of Edexcel. This level is the academic equivalent to Year 2 of a UK University honours Degree and National Vocational Qualification (NVQ) level 5. A Higher National Diploma (HND) course is best described as a two-year full-time course, which once completed can lead to entry on the final year of a degree course.

Programme Objectives: This qualification meets the needs of learners by:

- Developing a range of skills and techniques, personal qualities and attributes essential for successful performance in working life and thereby enable learners to make an immediate contribution to employment at the appropriate professional level.
- Preparing for a range of technical and management careers in construction and the built environment engineering
- Equipping individuals with knowledge, understanding and skills for success in employment in the electrical/electronic engineering-based industry.
- Providing specialist studies relevant to individual vocations and professions in which learners are working or intend to seek employment in construction and the built environment engineering and its related industries.
- Enabling progression to or count towards an undergraduate degree or further professional qualification in construction and the built environment engineering or related area.
- Providing a significant educational base for progression to Incorporated Engineer level.

Programme Structure: This programme consists of 16 modules, which are spread out over four semesters (terms), typically containing four units in each semester.

Ten Mandatory Core Units

- Design Principles and Application for Construction and the Built Environment
- Science and Materials for Construction and the Built Environment
- Applied Mathematics for Construction and the Built Environment
- Management Principles and Application for Construction and the Built Environment
- Group Project in the Construction Industry
- Health, Safety and Welfare for Construction and the Built Environment
- Engineering Geology and Soil Mechanic
- Site Surveying Procedures for Construction and the Built

Specialist unit- minimum of 85 credits

- Law and Contract for Construction and the Built Environment
- Project Management for Construction and the Built Environment
- Contractual Procedures and Procurement for Construction and the Built Environment
- Measuring, Tendering and Estimating for Construction and the Built Environment
- The Use of Information and Communication Technology for Construction and the Built Environment
- Transportation for Construction and the Built Environment
- Project Design, Implementation and Evaluation
- Railway Track Engineering
- Research Project etc

Career Opportunities: This programme offers career opportunities in any public or private organisations as an Civil Engineer, or Construction Engineer or a Manager.

Awarding Body: Edexcel, a Pearson company, is the UK's largest awarding body offering academic and vocational qualifications and testing to schools, colleges, employers and other places of learning in the UK and internationally.

Duration/Delivery Method: 2 years full-time in LCEM for HND

Entry requirement: Applicants must have obtained one or more of the following:

- A BTEC National certificate or Diploma in an appropriate area
- Two "A" Level passes plus four GCSE passes at Grade A, B or C,
- Equivalent overseas qualifications
- Candidate whose first language is not English will need an IELTS overall score of 4.0

Edexcel Registration: Students should also register with Edexcel and be accepted for a particular level of examination. Membership registration can take place at any time of the year

Examination: Edexcel BTEC Level 5 HND Construction and the Built Environment Engineering programme is assessed by a mixture of assignments and examinations by the college.

Grading: The grading of Edexcel BTEC Higher National qualifications is at the unit and the qualification level. Each successfully completed unit will be graded as a pass, merit or distinction. A pass is awarded for the achievement of all outcomes against the specified assessment criteria. Merit and distinction grades are awarded for higher-level achievement.

Award Conditions: Edexcel BTEC Level 5 Higher National Diploma (HND) Construction and the Built Environment will be awarded when a student successfully passed all modules. A module is passed when an overall module mark of 40% or more is attained.

University Progression: After completion of this course, apply to third year of BSc (hons) or BE(Hons) at UK university.

Fees: For information regarding fees for LCEM programmes, please refer to the following website: www.lcem.com