

EDEXCEL BTEC LEVEL 5 HIGHER NATIONAL DIPLOMA (HND) IN COMPUTING AND SYSTEMS DEVELOPMENT COMPUTER ENGINEERING

The new BTEC Higher Nationals in Computing and Systems Development have been accredited onto the Qualifications and Credit Framework (QCF). The BTEC Higher National Diploma in Computing is an internationally recognised qualification and is validated, administered and verified by the BTEC/Edexcel.

The BTEC Higher National Diploma (HND) is equivalent to the first two years of an Honours Degree programme at a British University. This qualification is designed to equip students with the knowledge, understanding and skills required for success in current and future employment in Information Technology. This qualification falls in line with the British Computer Society (BCS) and Engineering Council requirements for accreditation and exemption from the BCS examination..

Programme Structure: 5 CORE modules and 5 OPTION modules to qualify for an HNC.

Core modules:

- Computer Platforms
- Software Constructs & Tools
- Computer Implementation Project
- Business Information Technology Implementation Project
- Communication Technology
- Advanced Software Engineering Project
- Systems Analysis
- Computing Solutions
- Software Engineering Implementation Project
- Quality Management Principles
- Advanced Computing Project#
- Advanced Business Information Technology Project#

The Advanced Project has a value of 2 To achieve Higher National Certificate/Diploma, students can follow three available pathways:

OPTION MODULES:

COMPUTING SOFTWARE ENGINEERING

- Networking
- Human Computer Interface
- Computer Architecture -
- Web Site Management
- Data Structures and Algorithms
- Mathematics for Software Engineering
- Object-Oriented Development
- Data Analysis & Database Design
- End User Support -
- Database Management Systems
- Techniques of Artificial Intelligence
- Systems Software
- Software Engineering Techniques
- Discrete Mathematics
- Visual Programming
- Introduction to Programming
- Computer Management -
- Object-Oriented Programming
- Multimedia & Internet Development
- Computer - Based Learning

BUSINESS INFORMATION TECHNOLOGY

- Networking
- Human Computer Interface
- Computer Architecture
- Web Site Management
- Computer - Based Learning
- Data Analysis & Database Design
- End User Support
- Database Management Systems
- Techniques of Artificial Intelligence
- Business Applications, Development
- Visual Programming
- Introduction to Programming
- Computer Management
- Multimedia and Internet Development
- Management Science.

Entry Qualifications: Students should normally be aged 18 years or over.

They must possess four GCE's or their equivalent qualification, or a BTEC first Diploma, plus a reasonable knowledge of the English language. Mature students (over 21 years of age) may be exempt from this requirement on grounds of experience.

Duration of Course: Each course lasts two years, a total of approximately 64 weeks.

There is normally only one intake of students a year, in September with the first academic year commencing in late September and ending in June the following year. This pattern is the same for the second academic year. The course is structured around formal classes, seminars, tutorials and individual tuition. In addition, students will be expected to undertake private study.

Students will have to prepare at least two assignments per subject per term, plus two integrated assignments. Those seeking courses at degree level on completion of their BTEC National diploma course will need to apply to UCAS by the end of the first term of the second year. The college will be required to complete a detailed reference on the performance of the candidate.

Career Opportunities: This programme offers career opportunities in any public or private organisations as an Electrical Engineer, or Electronics 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.

Examination: Edexcel BTEC Higher Nationals in Computing and Systems Development 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.

Result: Candidates will be notified individually of their results normally by post.

You must successfully complete eight units in the first year in order to progress to the second year. In the event that you fail one or more units within the first year you will be permitted to continue only once you have successfully completed the failed units

Award Conditions: BTEC Higher Nationals in Computing and Systems Development 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: <https://lcem.com/student/fees>