



FdEng/HNC Engineering - Electronic Design

2021/22

Inspiring Lives, Discovering Futures

The Course

In brief...

The course will give you a superb grounding in the essential principles and techniques needed to meet the increasingly challenging and exciting nature of the Engineering industry. It has been designed to be relevant to the needs of employment in the fields of Electronic and Electrical Engineering.

As a student on this course you will have the benefits of using the College's excellent facilities including a full equipped electronics laboratory, electronics systems design suites and a new PCB design and prototyping system. Current students are registered as student members of the Institute of Engineering Designers (IED). Completion of the course enables partial Incorporated Engineer registration.

During the first year you will design and test analogue, digital and software based electronic systems. Typical circuit systems will be simulated and constructed and a range of test equipment utilised. A range of software design techniques will be studied to reflect those taking place in industry. There will be an introduction to business processes and theory within engineering companies and different project management techniques. This is tied together with the underpinning of mathematical theory and circuit analysis techniques used to ensure good design.

During the second year you will extend those skills developed in year one to analyse circuits and ensure good design technique across the range of electronic and electrical systems. You will undertake a group design project and an individual, company relevant, project that will also demonstrate your ability to project manage. The business processes and theories from the first year will be applied through the production of a business plan. Your understanding of mathematical theory and engineering design will continue to be developed throughout the second year. If successful, you graduate at this point with an HNC and if you achieve the necessary grades you have the option to progress to the Foundation Degree.

In this third year of study you will develop software principles and circuit analysis techniques to ensure independent design and process skills are developed. A more detailed company relevant major project is undertaken to demonstrate you can apply what you have learned over the last three years. You will also undertake writing your first academic paper for possible publication. To link in with the requirements for the IED you will also undertake Continual Professional Development and a work based log throughout the year.

Who is it for?

These courses have been specifically designed, in consultation with Industry and Professional Institutions, to enable those predominately working in engineering to study alongside their work. Our HNCs and Foundation Degrees in engineering are ideally suited to those who are looking to gain the essential skills to advance their career in a variety of engineering roles.

This course is also offered as a Degree Apprenticeship. Please [click here](#) for more information.

What the Course Leads to

What courses can I do after this?

Key Information

Duration

3 Years

Attendance

Part-time

UCAS Code

N/A

Campus Code

P

Qualification Name

FdEng/HNC

Institution

Bournemouth & Poole College

Awarding Body

Bournemouth University

Curriculum Area

Engineering and Construction -
Engineering and Electronics

Progression to the BEng/MEng (Hons) Engineering is an option for appropriate students.

What do I need to apply

To do this course you should have...

HNC

- Four GCSEs at at least grade 4/C, to include Maths and English or an equivalent qualification, plus
- One full A Level (at grade C or above), or equivalent Level 3 qualification e.g. BTEC National Diploma in a relevant subject.
- Adult learners will be considered and should have good literacy and numerical skills appropriate to the programme, and a good understanding of computing and an aptitude for technical work.

UCAS tariff points 32 from one full A Level or an equivalent Level 3 qualification in a relevant subject

FdEng: 120 Level 4 credits from an HNC in an appropriate discipline.

Normally at least 40 credits should be at Merit level or above and 20 of these credits should be from a mathematical analytical unit.

Relevant subjects: Physics, Maths, CDT, Electronics

International entry requirements

If you are not from an English Language speaking country, you will need to have a minimum of UKVI IELTS 6.0. We accept a wide range of academic qualifications awarded overseas and use the UK NARIC (National Academic Recognition Information Centre) guidelines for international comparisons. For tuition and accommodation fees please visit www.thecollege.co.uk/international/courses/tuition-fees and our International Operations team can offer you advice and guidance before and during your studies.

Course costs

Course Code	UCAS Code	Start Date	Costs
TDXHPD0013	N/A	06/09/2021	£4000.00

* Please note fees are subject to change.

Costs

HNC - £3,250 per academic year

FdEng - £4,000

Students who are eligible, can [apply for a student loan with Student Finance](#).

International Fees

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Course Content

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HNC - level 4 (Part time over 2 academic years or full time over 1 academic year)

- Analytical Methods for Design
- Business and Project Management
- Circuit Analysis and Fault Location Techniques
- Computer and Internet Technologies

- ElectronicSystems Design
- Project

FdEng - Level 5 (1 calendar year)

- Applied Software in Engineering
- Electronic Design Applications
- Major Project
- The Engineering Professional
- Work Based Unit

Next Steps ...

Email: enquiries@thecollege.co.uk

Telephone: 01202 205205

Web: www.thecollege.co.uk

Live chat available on the website

