

## VENUE AND DURATION OF COURSE:

East Surrey College, Gatton Point, Redhill, RH1 2JX. Two years Part-time. One day a week.

## ENTRY REQUIREMENTS:

AS/A level at grade C in related subjects (Maths, physics, engineering, D&T, Product Design or a BTEC Level 3 Diploma in Engineering). Applicants are required to have successfully complete a Higher National Certificate in Engineering (General).

## PROGRAMME OVERVIEW:

The Level 5 HND programme is designed to cover the key knowledge required by all engineers such as; engineering design, mathematics and science, and how to manage a professional engineering project. You will develop a sound understanding of the principles in their field of study, and learn how to apply those principles more widely.

## PROGRAMME STRUCTURE:

This course consists of 6 core units common to all Engineering BTEC programmes, two subject specific mandatory units and seven additional units chosen from a range.

### Mandatory Units:

- Engineering Design
- Engineering Maths
- Engineering Science
- Managing a Professional Project
- Research Project
- Professional Engineering Management (Pearson-set)
- Further Mathematics
- Lean Manufacturing

### Current offer of optional Units: seven required

- Mechatronics
- Analogue Electronic Systems
- Further Electrical, Electronic & Digital Principles
- Further Control Systems in Engineering
- Materials, Properties and Testing
- Mechanical Workshop Practices
- CAD for Maintenance Engineers
- Instrumentation and Control
- Electronic Circuit and Devices
- Virtual Engineering
- Digital Principles
- Electrical Systems and Fault Finding
- Electro, Pneumatic and Hydraulic Systems
- Mechanical Principles
- Commercial Programming Software
- Embedded Systems
- Electrical and Electronic Principles
- Industrial Power, Electronics and Storage

## PROFESSIONAL RECOGNITION:

General Engineering BTEC Level 5 Higher National Diploma Engineering (General Engineering)

## ASSESSMENT:

The course will be internally assessed through a programme of assignments, projects, case studies and practical activities.

## EQUIPMENT NEEDED:

- Pens/Pencils
- Scientific Calculator
- Lever arch folder
- Recommended textbooks
- Laptop with recommended Student software
- Licences installed (Matlab and MultiSim)

## TUITION FEES:

£3,082 per year in 2022/23. Please be aware that there may be additional costs for equipment and educational visits. This information will be available from the curriculum staff at interview.

## STUDENT LOANS AND FINANCIAL SUPPORT:

Full-time and Part-time students from the UK/EU who are studying for a Higher Education course can apply to the Student Loans Company ([www.slc.co.uk](http://www.slc.co.uk)) for a Tuition Fee Loan for the full amount (this will be paid directly to the College). Additionally, Full-time UK-only students can apply for a Maintenance Loan (to cover living costs). The Government have also introduced the Maintenance Loans to Part-time students. Evidence of an approved loan must be provided at enrolment in the form of the Payment Advice letter provided by the Student Loans Company. Further details of how to apply for a Student Loan can be found at [www.direct.gov.uk/studentfinance](http://www.direct.gov.uk/studentfinance).

## OTHER PAYMENT METHODS:

If you are not eligible for financial support you will need to pay for the course privately which could include a contribution from your employer. For more information, visit: [www.esc.ac.uk/fees-and-student-loans](http://www.esc.ac.uk/fees-and-student-loans).

## WHERE CAN IT LEAD?

These qualifications provide students with a clear pathway to employment, appropriate support during employment and a recognised progression route to gain the further learning required at Level 6 to achieve Incorporated Engineer (IEng) registration or to the final stages of a degree.

## HOW TO APPLY:

To apply online for this course please visit [www.esc.ac.uk](http://www.esc.ac.uk). If you have any outstanding queries, please contact our Client Services team on 01737 788444, or email: [clientservices@esc.ac.uk](mailto:clientservices@esc.ac.uk).

## Disclaimer:

Every effort has been made to ensure that the details contained in this leaflet are up-to-date and accurate at the time of printing. However, the College reserves the right to alter or cancel courses, their content, entry requirements, fees or other details should circumstances dictate.

Should you require this leaflet in a different format please contact Client Services on 01737 788444.

