

### VENUE AND DURATION OF COURSE:

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

### ENTRY REQUIREMENTS:

Two A-Levels or equivalent in Maths and another technical subject (normally Physics). An Engineering Level 3 BTEC National Certificate, Diploma or Extended Diploma. Applications from mature entrants with industry experience are also invited.

### PROGRAMME OVERVIEW:

The Level 4 HNC in Engineering (General) is designed to develop your knowledge and skills in electrical, electronic and mechanical engineering technologies which are crucial to organisations in this dynamic sector.

If you're looking to further develop your technical knowledge and skills, this course will allow you to study a more diverse range of units from digital principles to electrical testing and principles.

### PROGRAMME STRUCTURE:

The course consists of four core units common to all Engineering BTEC programmes, and four additional units.

#### Mandatory Units:

- Engineering Design
- Engineering Maths
- Engineering Science
- Managing a Professional Project

#### Optional Units: 4 required - delivery subject to demand

- Mechatronics
- Mechanical Workshop Practices
- Mechanical Principles
- Fundamentals of Thermodynamics and Heat Engines
- Machining and Processing of Engineering Materials
- Materials, Properties and Testing
- Fluid Mechanics
- Instrumentation and Control Systems
- Electro, Pneumatic and Hydraulic Systems
- CAD for Maintenance Engineers
- Digital Principles
- Electrical Machines
- Electronic Circuit and Devices
- Electrical Systems and Fault Finding
- Electrical and Electronic Principles

### PROFESSIONAL RECOGNITION:

General Engineering Level 4 BTEC Higher National Certificate.

### 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:**

£3,268 per year in 2024/25. 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?**

An Engineering Higher National Certificate can lead to further progression in the engineering sector. It can also provide the option to top up your Higher National Certificate to a Level 5 Higher National Diploma. This requires you to study a further eight units to complete your HND.

**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.

