

#### VENUE AND DURATION OF COURSE:

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

#### ENTRY REQUIREMENTS:

Applicants are required to have a Higher National Certificate in Electrical/Electronic Engineering.

#### PROGRAMME OVERVIEW:

This HND builds on the HNC in Electrical/Electronic Engineering and concentrates on how electronics is embedded into hardware to carry out specific functions. This particular programme has been designed to allow progression to Portsmouth University for a Top-Up Degree. This qualification can be included as part of the Degree Apprenticeship in Embedded Electronic Systems.

#### PROGRAMME STRUCTURE:

The course consists of 6 core units common to all Engineering BTEC programmes and ten subject specific mandatory units.

#### Mandatory Units:

- Engineering Design
- Engineering Maths
- Engineering Science
- Managing a Professional Project
- Research Project
- Professional Engineering Management (Pearson-set)
- Electrical and Electronic Principles
- Commercial Programming Software
- Further Mathematics
- Embedded Systems
- Mechatronics
- Analogue Electronic Systems
- Further Electrical, Electronic & Digital Principles
- Further Control Systems in Engineering
- Electronic Circuit and Devices
- Digital Principles

#### PROFESSIONAL RECOGNITION:

Embedded Electronic Systems Engineering Level 5 BTEC Higher National Diploma. Allow progression to Portsmouth University for a Top-Up Degree.

#### ASSESSMENT:

The course will be internally assessed through a programme of assignments, projects, case studies & 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 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?

On completion of the HND, students may go onto a wide and varied range of Engineering career pathways. Also students may choose to progress on to an appropriate Engineering Degree programme.

### 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.



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### WHERE CAN IT LEAD?

The course provides employment opportunities for students to enter or progress within the engineering sector; as well as opportunities to progress further in their studies by balancing employability skills with academic attainment. It also gives students the possibility to progress towards achieving internationally recognised registration with a professional body regulated by the Engineering Council.

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