

### VENUE AND DURATION OF COURSE:

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

### ENTRY REQUIREMENTS:

All candidates should have completed a Higher National Certificate (HNC) in Mechanical Engineering before topping up to the Diploma.

### PROGRAMME OVERVIEW:

The HND course is designed to support the progression into relevant areas in Mechanical Engineering or provides a flexible route to degree study and a recognised qualification. The course is for you if you would like to work as a technician/technician engineer in mechanical engineering design, manufacture, maintenance and testing. Our Higher National offer has been developed in conjunction with local employers to meet the needs of the local workforce.

### PROGRAMME STRUCTURE:

The course consists of 6 core units common to all Engineering BTEC programmes, five subject specific mandatory units and four 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)
- Mechanical Principles
- Fundamentals of Thermodynamics and Heat Engines
- Advanced Mechanical Principles
- Virtual Engineering
- Further Mathematics

#### Current offer of optional Units: four required

- Mechatronics
- Materials, Properties and Testing
- Mechanical Workshop Practices
- CAD for Maintenance Engineers
- Instrumentation and Control
- Electronic Circuit and Devices
- Electrical Systems and Fault Finding
- Electro, Pneumatic and Hydraulic Systems
- Electrical and Electronic Principles

### PROFESSIONAL RECOGNITION:

Mechanical Engineering Level 5 BTEC Higher National Diploma

### 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 2023/24. 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.

