

#### VENUE AND DURATION OF COURSE:

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

#### 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:

This qualification is designed to meet the needs of those already in employment and looking to further their career within engineering. A Higher National Certificate is the ideal qualification for engineers seeking a professional career status and offers progression to a variety of careers in research and development, design, management, teaching, technical sales or the Armed Forces. You must be at least 18 years of age. 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 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

- 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, calculator, lever arch folder, recommended textbooks and laptop. All students have access to the College WiFi and many students bring their own laptop with them for study.

### **TUITION FEES:**

£3,082 per year in 2019/20. 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). Part-time students are also eligible for a Maintenance Loan if they are studying an Undergraduate/Initial Teacher Training (ITT) course or a Postgraduate Certificate of Education (PGCE).

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 circumstance dictate.

Should you require this leaflet in a different format, please contact Client Services by email at: [clientservices@esc.ac.uk](mailto:clientservices@esc.ac.uk).

