

#### VENUE AND DURATION OF COURSE:

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

#### ENTRY REQUIREMENTS:

All candidates should have completed a Level 4 HNC in Electrical and Electronic Engineering before topping up to the Diploma with this course.

#### PROGRAMME OVERVIEW:

This qualification is designed to meet the needs of those already in employment and looking to further their career within electrical or electronic engineering. A Higher National Diploma 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. Our Higher National offer has been developed in conjunction with local employers to meet the needs of the local workforce.

#### PROGRAMME STRUCTURE:

In addition to the mandatory unit Electrical and Electronic Principles, the course consists of 7 additional units chosen from a range. If Electrical and Electronic Principles were studied as part of your HNC then an 8<sup>th</sup> optional unit will need to be chosen.

#### Mandatory Units:

- Electrical and Electronic Principles
- Analytical Methods for Engineers (already achieved as part of your HNC)
- Engineering Science (already achieved as part of your HNC)
- Project Design, Implementation and Evaluation (already achieved as part of your HNC)

You will also have achieved 5 other units as part of your HNC so a further 7 or 8 optional units will need to be chosen depending on whether Electrical and Electronic Principles were studied as part of your HNC.

#### Optional Units:

- Electrical Power
- Electrical and Electronic Measurement and Testing
- Programmable Logic Controllers
- Further Electrical Power
- Utilisation of Electrical Energy
- Electrical and Electronic Principles
- Further Analytical Methods for Engineers
- Microprocessor Interfacing and Control
- Digital and Analogue Devices and Circuits
- Advanced Mathematics
- Electronic Principles
- Computer Programming Techniques
- Electrical, Electronic and Digital Principles
- Engineering Design
- Instrumentation and Control Principles
- Control Systems and Automation

Units can be studied in various combinations to achieve a full qualification.

Example Programme – showing how an HNC can be topped up to an HND.

An example of an HNC	Analytical Methods for Engineers
	Engineering Science
	Electrical and Electronic Measurement and Testing
	Electrical and Electronic Principles
	Microprocessor Interfacing and Control
	Instrumentation and Control Principles
	Electrical, Electronic and Digital Principles
	Project Design, Implementation and Evaluation
Year 1	Further Analytical Methods for Engineers
	Digital and Analogue Devices and Circuits
	Microprocessor Interfacing and Control
	Applications of Power Electronics
Year 2	Advanced Mathematics
	Electronic Principles
	Computer Programming Techniques
	Electrical, Electronic and Digital Principles

### PROFESSIONAL RECOGNITION:

Electrical & Electronic Engineering Level 5 BTEC Higher National Diploma

### 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
- Laptop with recommended Student software licences installed (Matlab and MultiSim)

### 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 Diploma can lead to further study at Degree level.

## 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).

