A LEVEL ELECTRONICS

A Level Electronics provides the opportunity to learn about the theory of electronic components and how to design analogue and digital circuits. You will develop your practical skills to use modern test equipment and software to design virtual circuits.

Level 3 · A Level (or equivalent) · Truro College

TOP COURSE HIGHLIGHTS

SMALL CLASSES | EXCELLENT TUTOR SUPPORT | EXCEPTIONAL ELECTRONIC TEST FACILITIES | ELECTRONICS INDUSTRY LINKS

SOFTWARE AND HARDWARE SKILLS

Industry standard test equipment and software to help develop a broad range of skills. Software and hardware skills are important for electronic engineers.

GREAT RESOURCES

Electronics is an essential part of our engineering department. A Level Electronics students benefit from sharing resources with engineering students.

INDUSTRY EXPERIENCED TUTOR

The tutor has over 10 years of industrial experience designing and manufacturing electronics for a wide range of industries.

WHY CHOOSE THIS COURSE?

If you want to find out about how electronic devices work and want to design your own circuits, then an A Level in Electronics is for you. You may also have an interest in computers and programming. Most modern electronic circuits have programmable chips, and you will learn how to program some of these on the course. You will get the opportunity to design your own analogue and digital circuits, using modern equipment and software. A Level Electronics will help those students wishing to study electrical and electronic engineering at university and provide many essential skills for those that want to go directly into electronic industries.

You should already have a good knowledge of maths, especially algebra and trigonometry and be happy using scientific notation of numbers. No prior knowledge of electronic circuits and components is necessary but having some experience of the electronics used in design and technology would be advantageous.

WHAT WILL I LEARN?

You will learn about the basic building blocks of circuits from the humble resistor to the multifunctional Integrated Circuit. You will start by understanding simple circuits with batteries, resistors, switches and diodes, constructing circuits and testing voltages and currents. The practical work is supported by a large range of modern test equipment, including digital oscilloscopes to display signals, multimeters and software to analyse circuit function.

WHERE WILL IT TAKE ME?

After studying Electronics, you can progress to university to study a wide variety of electrical and electronic based courses – from Robotics to Control systems, Medical Electronics to Artificial Intelligence, or general Electrical and Electronic Engineering. Career opportunities include Apprenticeships or employment in a wide range of Industries and Commerce. Electronic engineering is a vast industry covering everything from robotics and software design to electrical power generation and digital communications. Every year some students find employment directly after the A level Electronics course in local companies testing, designing and building electronic circuits. It is essential that you have Maths at A Level to be able to study Electronics at university.

ENTRY REQUIREMENTS

In addition to general A Level entry requirement a keen interest in maths, engineering and design is desirable. You should have at least a Grade 6 in GCSE Maths with a Grade 6 in GCSE Physics or Grade 66 in Combined Science. Although you do not have to have studied electronics at GCSE level it is useful to have some knowledge.

IMPORTANT

Course information can change. Please use the QR code below for the current assessment arrangements, entry requirements and start dates.

FOR THE LATEST COURSE INFORMATION

Scan for assessment arrangements, learner support, confirmed start dates and how to apply.