

Information Technology Cambridge Technical Extended Certificate Level 3

General Information

(Exam board – OCR)
(Specification code: 05839)

Level 3 Cambridge Technical in IT is a vocational qualification which is designed with the workplace in mind. Vocational education isn't just about results – it's about educating people in the knowledge and skills required for employment and for the community as a whole. It's also about developing the behaviours and attributes needed to progress and succeed in education and in work

The Level 3 Cambridge Technicals in IT allow you to achieve your potential and progress to the next stage of their lives, whether it be Higher Education, an apprenticeship, or employment

IT is available as an

Extended Certificate in IT which is equivalent to one A Level

Entry requirements

You should have a grade 4 in GCSE English and GCSE Maths and should also meet the general college entry requirements for Advanced Level study. (Please see the current Prospectus- Advanced Programmes, Entry Requirements).

It is NOT necessary to have studied Information Technology at GCSE level. (Students are accepted onto this course with no ICT qualifications).

In this subject, particular skills and aptitudes will be required, many of which will be demonstrated by students' GCSE profiles.

Entry requirements might be changed in light of curriculum reform.



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Course content

Extended Certificate in IT - equivalent to 1 A Level

Exams 67%

1. Fundamentals of IT
2. Global Information
3. Cyber Security

Coursework 33%

9. Product Development
17. Internet of Everything

Unit 1 - Fundamentals of IT

A sound understanding of IT technologies and practices is essential for IT professionals. Information learnt in this unit will create a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how businesses use IT.

Unit 2 Global Information

The purpose of this unit is to demonstrate the uses of information in the public domain, globally, in the cloud and across the Internet, by individuals and organisations. Your students will discover that good management of both data and information is essential and that it can give any organisation a competitive edge. This unit will provide students with a greater understanding of how organisations use information sources both internally and externally and the types of information they will encounter. The skills gained by completing this unit will give them knowledge of the functionality of information and how data is stored and processed by organisations.

Unit 3 Cyber Security

The need for secure digital systems is more crucial than ever before. We rely on computerised systems and networks to collect, process, store and transfer vast amounts of data and to control critical systems such as water and power supplies. Business and e-commerce can be undertaken twenty four hours a day, seven days a week and telecommunications enable us to keep in touch with family and friends and collaborate with colleagues at any time. Mobile devices offer us freedom and flexibility of where and how we learn and work.

Unit 9 Product Development

The purpose of this unit is to prepare your students to undertake product development activities. They will learn about different product design methodologies and the role of the product development life cycle. In addition, they'll discover the factors that influence product developments. The key to any product development being a success is the analysis, client review, design, testing and final acceptance that takes place. The skills that students will learn can be applied to the development of any product, large or small. They will use product development skills and work through the product development life cycle

Unit 17 Internet of Everything (IOE)

This unit is about the use of the Internet and how it is impacting people and society. Your students will learn about the Internet of Everything (IOE) and how it is used. Using their knowledge they'll carry out a feasibility study for a potential idea. They will pitch their idea to potential stakeholders and use their feedback to revise their proposal

Useful / common subject combinations

Maths, Media Studies and Business Studies are subjects that could be taken alongside IT.

Careers / HE information

The Extended Certificate is preparation for an apprenticeship, work or further study.