Workington Academy - Sixth Form

Subject: OCR Level 3 Cambridge Technical Introductory Diploma in IT

Why you should study IT

The Cambridge Technicals in IT focuses on the skills, knowledge and understanding that today's Universities and Employers demand. Students will practically apply their skills and knowledge in preparation for further study or the workplace. These qualifications aim to develop your students' knowledge and understanding of the principles of IT and Global Information Systems. Your students will gain an insight into the IT Sector as they investigate the pace of Technological Change, IT Infrastructure, and the Flow of Information on a global scale and the importance of legal and security considerations.

Units on offer cover a range of exciting areas highly sought by employers, including the Fundamentals of ICT, Global Information, Virtual and Augmented Reality, Social Media and Digital Marketing, with endorsement for specialist pathway for Emerging Digital Technology Practitioner. An integral part of the course includes optional study visits to the ICT Live Conference held in Disneyland Paris.

Examination Board: OCR

Course Content

Fundamentals of ICT - A sound understanding of IT technologies and practices is essential for IT professionals. Information learnt in this unit will provide a solid foundation in the Fundamentals of Hardware; Networks; Software, the ethical use of computers and how business uses IT. After completing this unit, the knowledge, skills and understanding you have developed will underpin students' study for the additional units.

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. You 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 you with a greater understanding of how organisations use information sources both internally and externally and the types of information you will encounter. The skills gained by completing this unit will give you knowledge of the functionality of information and how data is stored and processed by organisations. You will also learn about how individuals use information of various types.

This unit will help you to understand the legislation and regulation governing information that flows into and out of an organisation and the constraints and limitations that apply to it. You will also learn the relationship between data and information.

Social Media & Digital Marketing - The use of social media has increased massively over recent years and is now a world-wide phenomenon. Users of social media are able to share ideas and files, compare opinions and pass comment on the activities of their friends and contacts. In doing so, they are not only generating huge amounts of data about themselves, but also allowing others the opportunity to contact them and monitor some of their online activities. Social media also allows users to collaborate with others across the globe.

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Virtual and Augmented Reality - Virtual reality is a simulated environment that is intended to replicate the physical experience of being in places in the real or imagined worlds by giving the user sensory experiences that match those which would be experienced were the user actually in that environment. Augmented reality is the process of changing the user's view of the real world in order to give them an improved, or more detailed, view of what they are seeing.

You will learn about both technologies and how they are used. You will research both technologies and design both a virtual and an augmented reality resource. Finally, you will use your research and skills learnt whilst designing and creating resources to suggest future applications for virtual and augmented reality.

Digital Marketing is part of the overall process of marketing and is the use of digital media to increase awareness of a product or service. As social media offers such a wealth of data and the ability to contact potential customers in their own homes across a range of media channels, it is only natural that digital marketing seeks to use social media as part of the marketing mix for goods and services. This unit looks at digital marketing as a concept and then offers you the opportunity to explore the possible impacts, both positive and negative, that may be generated by the use of social media as a digital marketing tool.

The Internet of Everything - This unit is about the use of the internet and how it is impacting people and society. You will learn about the Internet of Everything (IoE) and how it is used. Using your knowledge you will carry out a feasibility study for a potential idea. You will pitch your idea to potential stakeholders and use their feedback to revise your proposal. This unit is an optional unit in the Extended Certificate and all of the specialist pathways in the Diploma suite, as the Internet of Everything is everywhere. The Internet of Everything is expanding, appearing in all of the everyday devices found in homes, businesses and cities.

Assessment:

The course consists of 5 units studied over the course of two years of study and is a single award. Two units are externally assessed by an exam, the other three are coursework based, an assignment will be set for each unit and these will be assessed internally and moderated externally. Each unit will be graded individually and grades aggregated to give a final award.

Skills Developed, Progression and Possible Future Careers

Students will also develop professional, personal and social skills through interaction with peers, stakeholders and clients, as well as theoretical knowledge and understanding to underpin these skills. These support the transferable skills required by Universities and Employers such as Communication; Problem Solving; Time Management and Research and Analytical skills. Students could go on to take an apprenticeship or to study degrees, for example, in ICT, Web Technologies, and Social Media.