

KS5 Pathways

Computer Science & IT Department

KS5 Pathway @ SJHS

Cambridge Technicals in information technology

Vocational qualification -mixture of coursework and end of year examinations



Why study information technology @ SJHS?

Our results are **EXCELLENT**

	2015-2016	2016-2017
A*-A	38%	89%
A*-C	100%	100%

Your child may prefer project and research activities, so being assessed by coursework could help them attain a higher grade.

We provide two opportunities to take the external assessment, one in January and one in June – these can be taken at any time during the two year course.

Outstanding staff subject knowledge and experience



Valued with employer involvement

Accepted qualification at university level and apprenticeships including Cisco, Microsoft and BT.

Built with companies and universities rather than behind closed doors

Knowledge, skills and experience is developed and directed towards developing a well rounded individual who is resilient and challenged

Employers in the local area are involved in delivery of the qualification



Structure

Core unit

Fundamentals of IT (written exam)

Global information (written exam)

Augmented and virtual reality

(core coursework unit)



Optional - coursework

Choose up to 2
additional units



Optional units to choose from can include

Mobile technology

Social media and digital marketing

Developing a smarter planet

Internet of everything

Computer systems

Big data analytics

Cyber security

Business computing



Cyber security

This unit has been designed to enable you to gain **knowledge and understanding of the range of threats, vulnerabilities and risks that impact on both individuals and organisations**. You will learn about the **solutions that can be used to prevent or deal with cyber security** incidents resulting from these challenges. You will be able to apply your knowledge and understanding of cyber security issues and solutions by reviewing and **making recommendations for ways to best protect digital systems and information**.




Big data

Data is all around us and the amount of data being gathered is growing. Big Data deals with extremely large data sets that can be **analysed computationally to reveal patterns, trends and associations**. This is especially the case in relation to human behaviour and interactions. In this unit you will learn **what Big Data is, how it can be gathered, analysed and used by businesses**. You will also look at how a company could use big **data for planning for the future**.



Developing a smarter planet

Changes in technology over the last century now mean that we live in a Smarter Planet. You will consider **how the evolution of technology has impacted on everyday life, and why the Smarter Planet is important for a global society**. You will investigate the evolution of the Smarter Planet in a variety of contexts, including the impact it is having on society. You will consider **potential Smarter Planet developments and put forward a business proposal for a Smarter Planet concept to potential stakeholders, revising the business proposal as necessary following their feedback**.



Social media and digital marketing

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.**





Questions?