NORTHGATE
SIXTH FORM
CENTRE
IPSWICH

INFORMATION & COMMUNICATION TECHNOLOGY

LEVEL 3 TECHNICAL AWARD

2019-2020

Information Technology
OCR Cambridge LEVEL 3 TECHNICAL AWARD

Do you enjoy using a computer?

Do you want to extend your skills in IT?

Do you want to extend your knowledge about IT?

If the answer to all three questions is yes then this may be the course for you.

The course is designed for students who wish to go on to higher education or to the world of work where understanding how IT can be used in society and organisations, and the implications of its use, will be a valuable asset.

Why choose Cambridge Technicals in IT?

You will apply your practical skills and knowledge in preparation for further study, Higher Education or the workplace.

Designed in collaboration with experts spanning the breadth of the sector, the Cambridge Technicals in IT focuses on the skills, knowledge and understanding that today's universities and employers demand.

Among the many benefits, this specification is designed to encourage candidates to:

- work cooperatively and manage projects;
- develop personal learning and thinking skills;
- provide quality IT-based solutions to a range of problems;
- develop an awareness of developments in technology;
- develop problem solving skills through the practical applications of Information Technology;
- develop an understanding of the role of people, technology and computer systems in organisations;
- use a wide range of software and software to complete the practical work;
- become engaged in their studies by becoming active investigators rather than passive learners.

Resources

For students following this course there will be a number of resources available including a course textbook. A variety of videos will be used and the library has subscriptions to several computer magazines. A lot of use will be made of the Internet for students to research the latest information regarding IT issues.

Cambridge Technical Certificate in IT consists of 1 unit:

Unit 1: **Fundamentals of IT**   **Paper-based Exam**
90glh   1½ hours
80 marks

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 your study for the additional units.

Unit 2: **Global Information**   **Paper-based Exam**
90glh 80 marks   1½ hours

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.

Project Management

This unit will provide you with the opportunity to understand and use various project planning skills and techniques, thereby enabling you to become more effective in the workplace.

The key to any project being a success is the planning that takes place. Project management skills are essential transferrable skills that can be used for all IT related projects whether it's traditional methodologies or more recently adapted agile approaches within the IT development environment.

Project Development

The purpose of this unit is to prepare you to undertake product development activities. You will learn about different product design methodologies and the role of the product development life cycle. In addition, you will discover the factors that influence product developments.

Systems analysis and Design

All organisations have information systems. This unit will provide you with the knowledge and skills to support the design of formal information systems. These systems provide useful reliable, validated information through the integration of data, hardware, software and humans into processes which enable the organisation to meet its internal goals and its external obligations.

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. The Internet of Everything is expanding, appearing in all of the everyday devices found in homes, businesses and cities.

Curriculum Leader: Mr A Howard