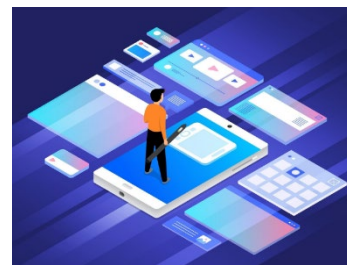


BTEC Technical Award in Digital Information Technologies (IT)

Exam Board: Edexcel BTEC Level 1 and 2

Aims:

BTEC Tech Award in Digital Information Technologies can help you take your first steps towards a career in the IT sector. Jobs in this area may include IT Technical Support Advisor, Project Manager, Data Administrator or Data Analyst. You will learn essential skills such as recording, interpreting, manipulating and analysing data, designing and creating a digital interface, analysing digital and printed media products and utilising specialist software.



Who is this course suitable for?

- Students wishing to enter the IT profession or study IT at a higher level or in a more specialised area
- Students with an interest in learning about different digital technologies, such as cloud-based computing, spreadsheets and data management, project planning and system security.
- Students who enjoy using ICT software packages learning new skills
- Anyone who is interested in learning about the impact of cyber security and safe working practices.
- Students who like the use of IT, but not programming

Content & Assessment:

Over the duration of the course, students will complete three components: two coursework and one exam.

Unit	Title	Assessment
1	Exploring user interface design principles and project planning techniques <ul style="list-style-type: none"> ● Designing and creating a user interface for a given purpose ● Plan the process using project management software 	Internal Coursework – 30%
2	Collecting, presenting and interpreting data <ul style="list-style-type: none"> ● Using a range of formulae and functions to produce reliable data 	Internal Coursework – 30%
3	Effective digital working practices <ul style="list-style-type: none"> ● Providing a range of short and long answer IT solutions using a hypothetical scenario that mirrors real-world situations 	Externally marked examination – 40%

You are most likely to enjoy this course if you are a creative student who enjoys practical projects and working with new technology. You will need good ICT skills and must be prepared to learn how to use new software and equipment. You will need good organisational skills to meet continuous deadlines.

Where can this course lead?

This course can lead on to various courses in Sleaford Joint Sixth Form. The Level 3 vocational courses available in Information Technologies allows students to increase their knowledge about specific aspects of IT systems and software. BTEC DIT could also lead students to CTEC Digital Media if you prefer the design aspects of Component 1. This course could also lead in to A Level Computer Science if you prefer the aspects of Component 2 and wish to pursue a more programming-based career path. This could also lead to apprenticeships in the IT, media or Computing industries or specialised college courses.

For further information, contact Mr L Walters

GCSE Computer Science

Exam Board: Edexcel



Aims:

Most aspects of today's world rely on computers. The need for robotics and applications to complete tasks is increasing consistently, but they still need someone to program them. Taking GCSE Computer Science provides students with the key skills required to become one of these people. Students will use logical thinking and problem solving skills to be able to apply key content to scenarios from the knowledge built up. Students will also undertake a number of programming tasks and challenges to design and create programs that provide solutions to given problems. The course provides excellent preparation for higher study and employment in the field of Computer Science.

Course content

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- Computational thinking
 - Data
 - Computers
 - Networks
 - Issues and impact
 - Problem solving with programming

Assessment

- A Computer Systems written exam lasting 1 hour 30 minutes - 50% of the qualification
- Python programming computer-based exam lasting 2 hours - 50% of the qualification
 - A help guide is provided as part of the programming examination

Note:

Due to the necessary application of logic and mathematics within the context of this course, students will need to be strong mathematicians and therefore Computer Science will not appear on all option forms. Access to Python at home would be highly beneficial.

For further information, contact Mr L Walters