

## What are the aims and intentions of this curriculum?

The BTEC Award in Digital Information Technology gives learners the opportunity to develop sector-specific knowledge and skills in a practical learning environment. The main focus is on the development of key skills that enables students to prove their aptitude in digital information technology in areas such as project planning, designing and creating user interfaces and creating dashboards to present and interpret data. Students also learn effective ways of working in digital information technology, such as through project planning, learning the iterative design process, understanding the importance of effective cyber security and learning the legal and ethical codes of conduct which would apply. Students are encouraged to consider other important factors in the effective use of digital information technology, including the importance of personal management and communication. Students learn knowledge that underpins effective use of skills, process and attitudes in the digital IT sector such as how different user interfaces meet user needs, how organisations collect and use data to make decisions, how virtual workplaces work, cyber security issues and legal and ethical issues.

Term	Topics	Knowledge and key terms	Skills developed	Assessment
<b>Summer 2</b>	Spreadsheet modelling and data manipulation.	Importing data into spreadsheet software. Selecting and applying different data manipulation methods. Producing a dashboard to display the summaries of data using appropriate presentation features and presentation methods. Selecting and using different methods to capture and manipulate data such as importing data, using functions, sorting, conditional formatting etc. Selecting and using appropriate presentation methods and features to show data in a dashboard. Use spreadsheet skills to manipulate data.	Advantages and disadvantages of different data collection methods. Using a spreadsheet to import and analyse data. Applying a range of different formulae in a spreadsheet effectively. Using the spreadsheet to present data in graphical format.	Spreadsheet and Modelling assessment task.
<b>Autumn 1</b>	Exploring User Interface Design Principles and Project Planning Techniques	Learners will develop their understanding of what makes an effective user interface and how to effectively manage a project. They will use this understanding to plan, design and create a user interface.	Investigate user interface design for individuals and organisations. What is a User Interface? Audience needs. Design Principles. Designing an efficient user interface.	Assessment test on designing and using user interfaces and effective planning techniques.
<b>Autumn 2</b>	Exploring User Interface Design Principles and Project Planning Techniques	Learners will develop their understanding of what makes an effective user interface and how to effectively manage a project. They will use this understanding to plan, design and create a user interface.	Use project planning techniques to plan and design a user interface. Project planning techniques. Creating a project plan. Creating initial designs.	Assessment test on designing and using user interfaces and effective planning techniques.
<b>Spring 1</b>	Exploring User Interface Design Principles and	Learners will develop their understanding of what makes an effective user interface and how to	Develop and review a user interface. Developing a user interface.	Internal assessment project for

	Project Planning Techniques	effectively manage a project. They will use this understanding to plan, design and create a user interface.	Refining a user interface. Effective review techniques.	moderation.
<b>Spring 2</b>	Collecting, Presenting and Interpreting Data	Learners will investigate the role and impact of using data on individuals and organisations. Learners will create effective dashboards using appropriate data manipulation tools. Learners are able to draw conclusions and review data presentation methods.	Characteristics of data and information. Representing information. Ensuring data is suitable for processing. Data collection methods. The quality of information and its impact on decision making. Sectors that use data modelling. Data threats to individuals.	Assessment test on data and information and different data collection methods.
<b>Summer 1</b>	Collecting, Presenting and Interpreting Data	Learners will investigate the role and impact of using data on individuals and organisations. Learners will create effective dashboards using appropriate data manipulation tools. Learners are able to draw conclusions and review data presentation methods.	Data processing methods. Producing effective dashboards which are suitable for audience and purpose.	Assessment test on data processing methods and practical task on producing an effective dashboard.