

Year 10 Curriculum Intent BTEC Tech Award in Digital and Information Technology

Year 10 Term	Unit of work	Intent
Autumn	Component 1: Exploring User Interface Design Principles and Project Planning Techniques	<p>Learning aim A: Investigate user interface design for individuals and organisations</p> <p>Learners will investigate different types of user interface used by individuals and organisations. They will investigate how they vary across different uses, devices and purposes.</p> <p>Learners will investigate the varying needs of the audience and how they affect both the type and the design of the interface.</p> <p>Learners will investigate a wide variety of design principles that provides both appropriate and effective user interaction with hardware devices.</p> <p>Learners will investigate techniques that can be used to improve both the speed and access to user interfaces.</p> <p>Learning aim B: Use project planning techniques to plan and design a user interface</p> <p>Learners will investigate different planning tools and design methodologies that can be used to plan, monitor and execute projects.</p> <p>Learners will select suitable project planning techniques to develop a project plan for the development of a user interface for a given brief.</p> <p>Learners will create an initial design using the design principles.</p> <p>Learning aim C: Develop and review a user interface</p> <p>Learners will use their design to produce a user interface.</p>
Spring	Component 1: Exploring User Interface Design Principles and Project Planning Techniques Component 2: Collecting, Presenting and Interpreting Data	<p>Learning aim C: Develop and review a user interface</p> <p>Learners will use their design to produce a user interface.</p> <p>Learners will refine their user interface using an iterative process with potential users.</p> <p>Learners will review the success of the user interface and the use of their chosen project planning techniques.</p> <p>Learning aim A: Investigate the role and impact of using data on individuals and organisations</p> <p>Learners will understand the concepts of data and that data is meaningless without converting it into information by adding structure and context</p> <p>Learners will understand the different ways of representing information and will be able to explain situations where they would be used.</p>

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<p>Summer</p>	<p>Component 2: Collecting, Presenting and Interpreting Data</p>	<p>Learners will understand the methods that can be used to ensure data input is suitable and within boundaries so that it is ready to be processed.</p> <p>Learners will understand how the data collection method and data collection features affect its reliability.</p> <p>Learners will understand the factors that affect the quality of information and their impact on decision making.</p> <p>Learners will understand that different types of organisation use data modelling to help make decisions.</p> <p>Learners will understand the different threats that face individuals who have data stored about them</p> <p>Learning aim B: Create a dashboard using data manipulation tools</p> <p>Learners will understand how data can be imported from an external source. They will then explore how to apply data processing methods. These include:</p> <p>Learners will use a dashboard to select and display information summaries based on a given large data set</p> <p>Learning aim C: Draw conclusions and review data presentation methods</p> <p>Learners will draw conclusions on the data set, using their dashboard in order to make recommendations.</p> <p>Learners will assess how well they have used the presentation features listed.</p>
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