BTEC DIT level 2- Learning Journey

The advance of technology is based on making it fit in so that you don't really even notice it, so it's part of everyday life." Bill Gates, Co-founder of Microsoft

Post 16

EP: Evaluation – Has your project met the user requirements? Identify S & W and what could be improved?

Evaluation of product

Assessment: Component 1 Coursework completion

Post 16 Learning Routes:
BTEC level 3 IT
BTEC level 3 Business
Study at OBA or college
Apprenticeships

Create user interface

EP: Create a user interface using PP– does your user interface meet the needs of the client?

methodology

Customer Needs

EP: have you outlined the project aims, methodology and timeline tools to use in your project. Can you identify resources needed for the task?

EP: How does different hardware/software change the interface?

EP: Can you describe the factors that affect a users choice when choosing a user interface?

Research for product

Component 3 External Assessment Feb/ May if re-sit required from yr10

Project Aims & Planning

Design Principles

Hardware & Software influences

Factors affecting choice

User Interfaces. "

1

Are you **courageous** enough to create a new interface?

EP: can you conduct interviews and create mood boards showing your ideas

EP: can you evaluate each design principles for a specific interface and compare with another?

Y11

EP: can you describe what what raw data is, identify characteristic of information and be able to determine how data can be collected and displayed. Can you explain the difference between validation and verification methods**.**

EP: have you developed a spreadsheet to manipulate raw data into information – have you used formulas and functions to extract information

What is data & information

Spreadsheet Model

Spreadsheet function – conditional formatting/ slicers/ spinners

Pivot table/ v-lookup/navigation/ linked cells

Developing a data dashboard and write up

Assessment: Component 2 Coursework completion

2

data + context + structure + meaning

Are you **courageous** enough to attempt that formula?

Component 3 External Assessment Feb/ May if re-sit required

EP: What is a data flow diagram and what do they represent and show?

EP: What threats do workplaces who use technology face?

EP: How can technology aid planning and which specific techniques can be used?

INTERNAL THREATS VS EXTERNAL THREATS

EP: How can teams work together /globally. Can you identify collaborative technology?

Data flow diagrams and flowcharts

Environment & the Law

Internal & External Threats

Schedule documents

Working together

KS4 Careers & options
IT project manager
Spreadsheet analysis
Data manager
IT infrastructure manager
IT technician

EP: How has technology had an effect on the environment. Which laws protect our IT and data systems?

Avoiding **Man-in-the-Middle** Attacks

EP: Why is it important to have a recovery, backup plan and policies in place to protect our data?

Disaster/Back Up Recovery

BACKUP

Are you **courageous** enough to use technology t assist you?

EP: What is cloud computing, can you explain some of the features, how its used and the benefits of using it in society?

Cloud Computing

Wired and wireless devices on the same network
CONNECTED

Y10

3

How can you access the internet?

Networks

Online storage

CLOUD COMPUTING

Component 3 Exam:
Unit 3 - Do you know how organisations use digital systems and the wider implications associated with their use?

EP: How do devices access the internet and what issues and factors affect this?

EP: Can you Identify different types of networks and connection types?

EP: Can you explain how cloud storage works and the features and impacts?

Digital Information Technology
Your Key Stage 4 BTEC for schools

Pearson BTEC

Wired & Wireless Networking
Wired Network
Wireless Network

KS4 Enrichment & Trips
Coursework catch up
Computer club
Paris
Enrichment

BTEC Tech AWARD in Digital Information Technology:

1 **2** **3**

Component 1 - Exploring User Interface Design
Component 2 -Collecting, Presenting and Interpreting Data
Component 3 - Effective Digital Working Practices

KS3 Prior Learning:
Students will have completed year 7-9 studying the National curriculum in computing looking at a hybrid approach of Computing and IT.

Unit overview	Expected progress
Component 1	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. As digital technologies and organisations continue to evolve, each new development offers new and exciting ways of completing tasks and interacting with our hardware devices. Each new development opens up a new project with a new set of user requirements that needs to be solved. In this component, you will learn different project planning techniques that can be used to both plan and deliver a project that meets a set of user requirements. User interfaces allow individuals and individuals in organisations to interact with digital technologies. The design of the user interface is crucial in ensuring that users are able to interact positively with their hardware devices. In this component, you will learn the different design principles that can be used to design effective user interfaces and apply appropriate project planning techniques to create a user interface that meets user requirements.
Component 2	Learners will understand the characteristics of data and information and how they help organisations in decision making. They will use data manipulation methods to create a dashboard to present and draw conclusions from information. Learners will understand the characteristics of data and information and how they help organisations in decision making. They will use data manipulation methods to create a dashboard to present and draw conclusions from information. In order to make decisions, organisations collect vast amounts of data from a range of different sources. They need to use appropriate data-collection methods to ensure that the data is of sufficient quality to enable decision making. Data must then be converted into information to allow it to become useful. In this component, you will learn the different data manipulation tools that can e used to change the way that data is presented. You will provide clear summaries of the data and present them in a dashboard that will allow organisations to make effective decisions. Even when data has been converted into information, it will not provide any conclusions on its own. It is up to the data user to be able to look at the information and draw conclusions, so how the information is presented is key to ensuring that effective and accurate decisions are made. In this component, you will learn the different presentation features that can be used to ensure that information is understood clearly in an objective way so that it is not misinterpreted.
Component 3 (Exam)	EP: Explore how the developments in technology over recent years have enabled modern organisations to communicate and collaborate more effectively than ever before. The component is designed to allow you to explore the digital systems available to organisations and how their features have an impact on the way organisations operate. You will explore how developments in technology have led to more inclusive and flexible working environments, and how regulation and ethical and security concerns influence the way in which organisations operate.

- Transferable skills

- Comp 1 - This component will build on Key Stage 3 where you have learned about computer systems and software applications. You will learn how effective design and planning has a major impact on the user experience. This component will help you to progress to further vocational or academic qualifications. It will also enable you to develop transferable project planning skills that can be

- used across all areas of study and employment.

- Comp 2 - This component will build on Key Stage 3, where you have learned about how to create programs. This component will help to develop your understanding of how to represent information in different ways to give it more meaning. The component will help you to progress to further vocational or academic qualifications. It will enable you to develop transferable data manipulation tools that you can use to make effective decisions in all areas of study and employment. It will also help you to focus on your chosen specialism in more detail, for example managing big data, business analytics.