The 'big' skills needed for both GCSE and A Level: Subject BTEC Tech Award Digital Information Technology

Component 1: Exploring User Interface Design Principles and Project Planning Techniques		
AO1 - knowledge AO2 – Understanding AO3 - Analyse & evaluate AO4 - Make connections with digital information technology		
Year 10	Term 1: Learning Aim A Topic: Investigate user interface design for individuals and organisations Skills: (A01 & A02) Investigate the varying needs of the audience and how they affect both the type and the design of the interface. Assessment: Research and present report	Term 2 : Learning Aim B Topic: Investigate user interface design for individuals and organisations Skills (A03) Investigate different planning tools and design methodologies that can be used to plan, monitor and execute projects Assessment: a project plan containing a combination project planning tools, e.g. Gantt charts, mind maps and a design specification containing a combination of different design techniques, e.g. tables, sketches, storyboards.	Term 3: Learning Aim c Topic: Develop and review a user interface Skills: (A04) Use their design to produce a user interface Assessment: Practical work:: a user interface, that can could be in the form of a database, website or a mobile phone app also a written document

Component 2: Collecting, Presenting and Interpreting Data

AO1 - knowledge
AO2 – Understanding
AO3 - Analyse & evaluate
AO4 - Make connections with digital information technology

Year 11	Term 1: Learning Aim A	Term 2 : Learning Aim B	Term 3: Learning Aim C
	Topic: Investigate the role and impact of using data on individuals and organisations	Topic: Create a dashboard using data manipulation tools	Topic: Draw conclusions and review data presentation methods.
	Skills: (A01 & A02) investigate data collection methods and features and how the data collection methods and features affect the quality of the data.	Skills (A04) select and apply the data manipulation methods to provide appropriate summaries of the data and produce a dashboard to display the summaries of data	Skills: (A03) Use dashboard to identify patterns and trends in the data.

Assessment: a written document that shows the drawing of conclusions and recommendations |
| | Assessment: Research and present report | Assessment:
Create spreadsheet showing the imported dataset, the data manipulation methods used and a completed dashboard and prepare a written document | |

Component 3: Effective Digital Working Practices

AO1 - knowledge
AO2 – Understanding
AO3 - Analyse & evaluate
AO4 - Make connections with digital information technology

Year 11	Term 1: Learning Aim A	Term 2 : Learning Aim B	Term 3: Learning Aim C
	Topic: Investigate user interface design for individuals and organisations	Topic: Learners must understand how the increased reliance of organisations on digital systems to hold data and perform vital functions presents a range of challenges and dangers.	The wider implications of digital systems
	Skills: (A01 & A02) show understand how current technology are used and the impact on organisations.		Skills: (A01, A02 & A03) show understand how data cab be shared responsibly and demonstrate an understanding of the environmental impact of digital systems.
	Assessment: Assessment Activity to prepare for External Test	Skills (A01, A02 & A03) demonstrate an understanding of why systems are attacked and how. Show an understanding of the breaches of security.	Learning Aim D
Planning and communication in digital systems
			Skills: (A04) Using a scenario students will produce diagrams to communicate complex ideas.
		Assessment: Assessment Activity to prepare for External Test	
			Assessment: Assessment Activity to prepare for External Test

AO1 Demonstrate knowledge of facts, terms, processes and issues in relation to digital information technology

AO2 Apply an understanding of facts, terms, processes and issues in relation to digital information technology

AO3 Analyse, evaluate and make reasoned judgements about the use, factors and implications influencing digital information technology

AO4 Make connections with the concepts, issues, terms and processes in digital information technology