

productivity and subsequently generating more profit.

Curriculum – Year 13 IT					
Year 13 IT	Autumn	Autumn	Spring	Spring	
Qualification BTEC IT L3 Extended Certificate (360 GLH)	Term 1 Term 2 Unit 1: Information Technology Systems (2 Hour Written exam – 120 GLH)		Term 1 Term 2 Unit 5: Data Modelling (NEA – 60 GLH)		
Ethos Links	Character – (LAF) Confidence Creativity Contributing Community – (LAC) Relationships – (LAE) Routines Recognition Restorative approach		Character - Confidence – (LAB) Creativity – (LAC) Contributing Community Relationships Routines – (LAC) Recognition Restorative approach		
Learning End Points	Digital devices and how they connect with IT systems. This will be in a personal, business, and educational environment. This will involve hardware software. Additionally, about emerging technology and how that is changing the way people work with computers and artificial intelligence. **Learning Aim B** How computer networks are constructed and how data is transmitted over a network. This will include network performance and security. **Learning Aim C** Online communities and how as well as having a real profile in real life. There is also a need for an online profile as businesses now operate online using various online platforms. **Learning Aim D** Learning Aim D**		Learning Aim A The students will be familiar spreadsheet models. They will understand the processes of creating an effective spreadsheet model. They will be able to understand the key decisions that need to be made to ensure that the final product meets the requirements of the end user and is fit for the final audience and purpose. Learning Aim B Be able to produce high quality designs. This will demonstrate the functions and formulae used in the model. This will also illustrate the design and layout. Subsequently, linking on to the Human Computer Interaction (HCI) with the client.		
			Learning Aim C Finally, combining the prior learning aims together and creating a robust spreadsheet model fit for the final audience and purpose. Demonstrating efficient Microsoft Excel skills. VLOOKUP, IF statements, Pivot charts. Additionally, providing evidence of skills such as time management, organisational skills, independent working skills and an element of creativity.		
	develop the ability to providing of protecting data and the con any way. Learning Aim E How business models are now	the threats to data, information, and systems. They will also g solutions to these threats. This will include the importance is sequences if data is destroyed, stolen, or compromised in a shifting online. This will include the various online			
	communities, the impact of organisations conducting more business online and using and manipulating data gathered from clients and any business transactions to enhance				

	Learning Aim F	
	The students will be aware of the legal, moral, and ethical issues when using IT in society.	
	This will consist of the legislation and the reasons why any IT user would breach these	
	rules and regulations, and the consequences.	
Substantive knowledge	Learning Aim A	Learning Aim A
	Hardware and software	The decision-making process
	Emerging Technologies	Spreadsheet features used.
	Different IT systems	Evaluating existing models and how to evaluate of own work.
	Digital devices	Be able to justify any decisions made.
	Learning Aim B	Learning Aim B
	Connectivity	Design a functional specification to meet the needs of an end user.
	Networks	Create a design to demonstrate an outcome for a scenario.
	Data Transmission	Refine and improve data models.
		Improve effectiveness of the final product based on ongoing client reviews.
	Learning Aim C	
	Online systems	Learning Aim C
	Online communities	Develop a data Model solution.
		Test the spreadsheet data model.
	Learning Aim D	Review and refine a model further after conducting initial testing process.
	Threats to data	Reflect on personal professional conduct during the completion of the project. E.g., Meeting deadlines and
	Protecting Data	completing work to a good standard.
	Learning Aim E	
	Online services	
	Impact on organisations	
	Manipulating data	
	Learning Aim F	
	Moral and ethical issues	
	Legislations	
Disciplinary knowledge	The students should develop the technical knowledge of how IT specialists monitor and	The students should be able to plan, design, create test and evaluate a spreadsheet model. The students will
	implement IT systems. This should include their daily duties such as network analysis,	develop key Microsoft Excel skills that are used in most industries. This application is used by IT and Non – IT
	security, IT audits, trouble shooting, web and database administration. In addition, they	specialists.
	should also be familiar with how IT specialists work in the community and how various	
	users interact with IT systems. Whether it is for education, retail or for business.	
Key Vocabulary	Aesthetic pleasing	Plan
	Bandwidth	• Design
	Click Bait	Implementation
	Data Cleansing	Test
	Encrypting	Evaluate
	Fibre optics	Modelling
	• GPS	Decision making
	Human Computer interaction (HCI)	Formulae
	• Immersive	• Function
	• Jargon	Validation / Verification
	Social Engineering	Constraints