

Programme of study for BTEC Level 3 IT (Year 12)

Autumn (1 st term)	Autumn (2 nd term)	Spring (1 st term)	Spring (2 nd Term)	Summer (1 st term)	Summer (2 nd term)
From: Sept To: Oct	From: Oct To: Dec	From: Jan To: April		From: April To: May	From: June To: July
<p><u>Topic / Key Question:</u> Unit 5 - Learners study how data modelling can be used to solve problems.</p> <p><u>Learning aims:</u></p> <ul style="list-style-type: none"> Investigate data modelling and how it can be used in the decision-making process Design a data model to meet client requirements <p><u>Skills:</u> Reading technical texts , effective writing, analytical skills</p>	<p><u>Topic / Key Question:</u> Unit 5 - Learners will design and implement a data model to meet client requirements.</p> <p><u>Learning aims:</u></p> <ul style="list-style-type: none"> Develop a data model to meet client requirements Test a data model to ensure its fully functional Evaluate data model against client requirements <p><u>Skills:</u> Mathematics skills, Creativity skills, analytical skills, Communication skills, Problem solving</p>	<p><u>Topic / Key Question:</u> Learners study the design, creation, testing and evaluation of a relational database system to manage information.</p> <p><u>Learning aims:</u></p> <ul style="list-style-type: none"> Demonstrate knowledge of database development terminology, standards, concepts Apply knowledge and understanding of database development terminology, standards, concepts and processes to create a software product. Analyse information about database problems and data from test results to optimise the performance of a database solution Evaluate evidence to make informed judgements about the success of a database's design and performance Be able to develop a database solution to meet a client brief with appropriate justification <p><u>Skills:</u> Mathematics skills, Creativity skills, analytical skills, Communication skills, Problem solving</p>		<p>External exam Part A 3hrs, Part B 2hrs – Unit 2</p> <p><u>Topic / Key Question: (from May to July)</u> Learners study the role of computer systems and the implications of their use in personal and professional situations</p> <p><u>Learning aims:</u></p> <ul style="list-style-type: none"> Know the digital devices that form part or all of IT systems Know the function and uses of digital devices Know the function and uses of digital devices for a range of organisations The concepts, processes and implications of transferring data within and between IT systems. <p><u>Skills:</u> Communication skills, reading technical texts, effective writing</p>	<p><u>Topic / Key Question: (from May to July)</u> Learners study the role of computer systems and the implications of their use in personal and professional situations</p> <p><u>Learning aims:</u></p> <ul style="list-style-type: none"> Know the peripheral devices used with other digital devices to form part of an IT system The concepts and implications for individuals and organisations of connecting devices to form a network. <p><u>Skills:</u> Communication skills, reading technical texts, effective writing</p>
<p><u>End of term 2 assessment to cover:</u></p> <ul style="list-style-type: none"> Internal assignment 1 and 2 (P1 – P5, M1, M2, D1) Internal assignment 3 (P6, P7, M3, D2 and D3) 		<p><u>End of term 2 assessment to cover:</u></p> <p>AO1 – AO5 External exam practise Part A 3hrs, Part B 2hrs</p>		<p><u>End of year assessment to cover:</u></p> <ul style="list-style-type: none"> Part of A01 	
<p><u>Rationale for sequence:</u> Optional unit Unit will be required for sampling end of the year</p>	<p><u>Rationale for sequence:</u> Optional unit Unit will be required for sampling end of the year</p>	<p><u>Rationale for sequence:</u> First of the external assessments to spread over the two years Gives students maximum chance to retake</p>		<p><u>Rationale for sequence:</u> Early preparation for external exam for next year</p>	
<p>Home – Learning: Related to topic covered at the time and assignment completion</p>	<p>Home – Learning: Related to topic covered at the time and assignment completion</p>	<p>Home – Learning: Related to topic covered at the time</p>	<p>Home – Learning: Related to topic covered past paper completion</p>	<p>Home – Learning: Related to topic covered past paper completion</p>	<p>Home – Learning: Related to topic covered</p>

Reading / High Quality Text: Understanding technical language	Reading / High Quality Text: Understanding technical language	Reading / High Quality Text: Understanding technical language	Reading / High Quality Text: Understanding technical language	Reading / High Quality Text: Understanding technical language	Reading / High Quality Text: Understanding technical language
Numeracy: Use of formulae & functions. BIDMAS	Numeracy: Use of formulae & functions. BIDMAS	Numeracy: Using functions and formulae	Numeracy: Using functions and formulae	Numeracy: Storage capacity	Numeracy: bandwidth
<p>Enrichment / opportunities to develop cultural capital (including careers, WRL and SMSC):</p> <p>Rights of individuals and rules for companies storing data. Job roles using software covered.</p>					