

#### BTEC Level 3 National Extended Certificate in Information Technology Year 13 Single Qualification

Unit 6 Website Development

Unit 1 Information Technology Systems

	Autumn 1a	Autumn 1b	Spring 2a	Spring 2b	Summer 3a	Summer 3b
	the principles of website	the principles of website	website to meet client	website to meet client	website to meet client	website to meet client
	development	development	requirements	requirements	requirements	requirements
	Learning Aim A: Digital devices	Learning Aim D: Protecting				
	in IT systems	data and information				
	Learning Aim B: Transmitting	Learning Aim E: Impact of IT				
	Data	systems				
	Learning Aim C: Operating	Learning Aim F: Issues				
	online					
	A1 – Digital devices their	D1 – Threats to data,	<b>B1</b> – Website design	C1 – Client-side scripting	C3 – Website review	C5 – Skills, knowledge and
	functions and use	information and systems	B2 – Common tools and	languages	C4 – Website optimisation	behaviours
	A2 – Peripheral devices and	D2 – Protecting data	techniques used to produce	C2 - Website development		
	media	E1 – Online services	websites			
	A3 – Computer software in an IT	E2 – Impact on organisations				
	system	E3 – Using and manipulating				
	A4 – Emerging technologies	data				
Ę	A5 – Choosing IT systems	F1 – Moral and ethical issues				
LE	B1 – Connectivity	F2 – Legal issues				
Z	B2 – Networks					
ö	B3 – Issues relating to	A1 – Purpose and principles of				
	transmission of data	website products				
	C1 – Online systems	A2 – Factors affecting website				
	C2 – Online communities	performance				
	A1 – Purpose and principles of					
	website products					
	A2 – Factors affecting website					
	performance					



## BTEC Level 3 National Extended Certificate in Information Technology Year 13 Single Qualification

	Students will study the concepts	Students will study the issues	Students will design a website	Students will further develop	Students will review their	Students will evaluate their own
	and implications of and	and implications of protecting	to meet client requirements,	their website to meet their	interactive websites looking at	performance, knowledge and
	relationships between digital	data and information, storing	this will include the steps	client requirements using the	the following:	behaviours that they have used
	devices in IT systems, the	and transmitting data, the uses,	involved in developing a design	following:	<ul> <li>quality in comparison with</li> </ul>	throughout the completion of
	concepts of transmitting data	issues and implications of IT	for a client website.	<ul> <li>Embedding of original client-</li> </ul>	other similar websites	this project.
	within and between IT systems,	systems and their impact on	Students will produce their	side scripts into web pages to	<ul> <li>suitability for intended</li> </ul>	
	operating online and the	individuals and organisations,	website using common tools	provide more interactivity and	purpose and audience	
	implications for individuals and	the concepts, impacts and	and techniques, such as:	improve the usability of the	<ul> <li>suitability against the client's</li> </ul>	
	organisations of using online IT	implications of issues resulting	<ul> <li>HTML, HTML5 and</li> </ul>	website.	requirements, including	
	systems.	from the use of IT systems	subsequent updates.	<ul> <li>Types of web-scripting</li> </ul>	optimisation	
			• Tables.	languages, e.g. JavaScript <sup>®</sup> ,	<ul> <li>legal and ethical constraints</li> </ul>	
	Students will develop their	Students will develop their	<ul> <li>Forms, text field, text area,</li> </ul>	VBScript <sup>®</sup> .	<ul> <li>strengths and improvements</li> </ul>	
	understanding of the principles	understanding of the principles	buttons, radio buttons, check	<ul> <li>Uses of scripting languages,</li> </ul>		
	of website development,	of website development,	boxes.	e.g. alerts, confirming choices,	Students will then optimise	
	including the purpose and	including the purpose and	<ul> <li>Navigation, menus, hyperlinks</li> </ul>	browser detection, creating	their interactive website, by	
	principles of website products	principles of website products	(internal and external), anchors.	rollovers, checking/validating	completing the following:	
	as well as the factors affecting	as well as the factors affecting	<ul> <li>Interactive components, e.g.</li> </ul>	input, handling forms.	<ul> <li>performance and user testing</li> </ul>	
	website performance.	website performance.	hot spots, pop-ups, buttons,	<ul> <li>Constructs, e.g. syntax, loops,</li> </ul>	<ul> <li>obtaining and evaluating</li> </ul>	
			menus, rollover images.	decision making, functions,	feedback from others	
			<ul> <li>Colour schemes, styles and</li> </ul>	parameter passing, handling	<ul> <li>checking interactivity</li> </ul>	
SKII			templates.	events, methods	<ul> <li>checking compatibility</li> </ul>	
			<ul> <li>CSS, e.g. background colour,</li> </ul>	Students will use website	<ul> <li>refinements and making</li> </ul>	
			background images, text	development tools to create	improvements to meet client	
			formatting, borders, padding,	interactive websites:	needs to optimise the website	
			heading styles, element	<ul> <li>use of CSS, e.g. HTML tags,</li> </ul>		
			position.	CSS frameworks, box model,		
			<ul> <li>Embedded multimedia/digital</li> </ul>	access CSS from HTML, doc		
			asset content, e.g. digital	types •		
			animation, digital graphics,	use of original client-side		
			digital audio, digital video.	scripting		
			<ul> <li>Accessibility features, e.g.</li> </ul>	<ul> <li>compatibility with mobile and</li> </ul>		
			alternative tags, zoom features,	tablet devices		
			text-to-speech.	<ul> <li>effective use of tools and</li> </ul>		
			The World Wide Web	techniques		
			Consortium (W3C <sup>®</sup> ) standards	• the uploading of files to a web		
			for accessibility and HTML	server or host computer/device		
			compliance.			
			• Platform compatibility, e.g.			
			browser, operating system,			
			mobile devices.			



## BTEC Level 3 National Extended Certificate in Information Technology Year 13 Single Qualification

	Exporting and compressing of	
	digital assets into suitable file	
	types.	



## BTEC Level 3 National Extended Certificate in Information Technology Year 13 Single Qualification

	What are the different digital	What are the implications of	What are the steps involved in	What is client-side scripting?	What is the purpose of	What are the skills, knowledge
	devices that form part or all of	storing and transmitting	developing a design for a client	What are the different types of	reviewing the interactivity of	and behaviours involved in the
	IT systems?	information in digital form?	website?	web-scripting languages?	websites?	creation of a website?
	What are the different	What are the features, uses and	What are the purpose of	Why is it important to have	Why is it important to check	What is the importance of
	functions and uses of digital	implications of systems and	defining the requirements laid	compatibility with mobile and	your website against client	planning, recording the setting
	devices?	procedures used to protect the	out by the client?	tablet devices?	requirements?	of relevant targets?
	What are the features and uses	data of individuals and	What are the different client-		What is optimisation?	What is the purpose of
	of peripheral devices and media	organisations?	side scripting design tools and		Why is it important to optimise	reviewing and responding to
	in IT systems?	What are the uses, issues and	techniques?		your website? What is the	outcomes?
	What are the concepts and	implications of IT systems and	What is the importance of		importance of gaining feedback	
	implications of the use of, and	their impact on individuals and	obtaining client feedback on		from others?	
	relationship between, hardware	organisations?	designs?			
	and software that form large-	How do the features of online	What are the legal and ethical			
	and small-scale IT systems?	services used to meet the needs	considerations?			
	How can emerging technologies	of individuals and	What are the common tools			
	be used by individuals and	organisations?	and techniques used to produce			
	organisations?	What are the features and	websites?			
NS	How do the features of an IT	implications of IT systems used	How can these tools and			
Ē	system affect its performance	by organisations?	techniques be used to create an			
JES	and/or the performance of a	What are the uses, processes	efficient and reliable website?			
b	larger II system?	and implications for individuals	What are the accessibility			
Ε	what are the concepts	and organisations of accessing	reatures that can be used?			
×	processes and implications of	and using data and information	What is platform compatibility?			
	transferring data within and	In digital form?	what is the importance of			
	What are the concents and	and implications of issues	digital accets?			
	implications for individuals and	resulting from the use of IT	uigital assets!			
	organisations of connecting	systems?				
	devices to form a network?	What are the implications for				
	How do the features and	individuals organisations and				
	processes of data transmission	wider society of moral and				
	affect the use and performance	ethical factors of using				
	of IT systems?	information technology?				
	What are the implications for	What are the legal issues				
	individuals & organisations of	relating to the use of IT systems				
	using online IT systems?	and the implications for				
	What are the features, impacts	individuals, organisations and				
	and implications of the use of	wider society?				
	online IT systems to store data	·				
	and perform tasks?					



## BTEC Level 3 National Extended Certificate in Information Technology Year 13 Single Qualification

	What are the features of online	What are the purpose and				
	communities and the	principles of websites?				
	implications of their widespread	What are the factors that affect				
	use for organisations and	website performance?				
	individuals?	What are the principles of website development?				
	What are the purpose and	What are media and objects?				
	principles of websites?	Why is creativity and innovation				
	What are the factors that affect	important?				
	website performance?	What is search engine				
	What are the principles of	optimisation?				
	website development?					
	What are media and objects?					
	Why is creativity and innovation					
	important?					
	What is search engine					
	optimisation?	Even atula aveationa basad	Depart based on the design of a	Depart based on the desire of a	Depart based on the design of a	Depart based on the design of a
	Exam style questions based	Exam style questions based	Report based on the design of a			
L	upon learning aim A, B & C	Lupon learning aim A, B, C, D, E &	website to meet client			
ASSESSMENI	Report based on the principles	F	requirements	the developing of a website to	the developing of a website to	the developing of a website to
	of website development	Report based on the principles		meet client requirements	meet client requirements	meet client requirements
		of website development		meet elent requirements	website review and	website review optimisation
					optimisation	and the skills, knowledge and
						behaviours needed to create a
						website.