

# Pearson Level 3 Alternative Academic Qualification

## BTEC National in Information Technology (Extended Certificate)



This course is for learners with an interest in the Digital sector and aiming to progress to higher education as a route to graduate level employment. It is suitable for learners looking to develop their applied knowledge and skills in Information Technology as part of their programme of study.

Learners develop the ability to apply digital concepts to different sectors which is beneficial to the analytical approach included in many degrees. The ability to take personal responsibility and written communication skills will develop students' ability to manage their own work and independently create extended writing tasks which is a good foundation for academic success.

Year 12	Focus / Topic	Knowledge & Skills	Assessment	
Autumn 1	Unit 01: Information Technology Systems	Explore the concepts and implications of the use of, and relationships among devices that form IT systems A1. Functions and use of digital devices, and the notation used to represent the design of IT systems A2. Peripheral devices and media A3. Computer software in an IT system A4. Choosing IT systems A5. Emerging technologies	<ul style="list-style-type: none"> <li>End of learning aim test.</li> <li>Book reviews of class and home learning.</li> <li>Content will form part of November Assessment Week (whole school)</li> </ul>	
	Unit 03: Website Development	Understand how the principles of website development are used to create effective websites A1. Purpose and principles of websites A2. Planning a website in response to a client brief		
Autumn 2	Unit 01: Information Technology Systems	Transmitting data B1. Connectivity B2. Networks B3. Issues relating to transmission of data	Operating online C1. Online system C2. Online communities	<ul style="list-style-type: none"> <li>End of learning aim test.</li> <li>Book reviews of class and home learning.</li> </ul>
	Unit 03: Website Development	Explore website design skills and techniques to meet client requirements B1. Website design B2. Asset management techniques		<ul style="list-style-type: none"> <li>End of learning aim test.</li> <li>Book reviews of class and home learning.</li> </ul>

Year 12	Focus / Topic	Knowledge & Skills		Assessment
Spring 1	Unit 01: Information Technology Systems	Protecting data and information D1. Threats to data, information and systems D2. Protecting data	Impact of IT systems E1. Online services E2. Using and manipulating data	March Assessment Week (whole school); end of learning aim tests.
	Unit 03: Website Development	Develop a website to meet client requirements C1. Common tools and techniques to produce a website C2. Website development process		End of learning aim tests.
Spring 2	Unit 01: Information Technology Systems	<u>Issues</u> F1. Moral and ethical issues F2. Legal issues		
	Unit 03: Website Development	Develop a website to meet client requirements C1. Common tools and techniques to produce a website C2. Website development process C3. Testing		
Summer 1	Unit 01: Information Technology Systems	Consolidation and past exam paper practice		Externally assessed exam • Fri 15 May 2026 (PM).
	Unit 03: Website Development	Sample assessment material (dry run)		Internal formative assessment
Summer 2	Unit 03: Website Development	Pearson Set Assignment Brief (15 hours)		Internal assessment • <a href="#">Submission</a> due Jul.

Year 13 2026/27	Focus / Topic	Knowledge & Skills Provisional plan subject to refinements
Autumn 1	Unit 2: Cyber Security and Incident Management	Cyber security threats, system vulnerabilities and security protection methods <ul style="list-style-type: none"> <li>A1. Cyber security threats</li> <li>A2. System vulnerabilities</li> <li>A3. Legal responsibilities</li> <li>A4. Software and hardware security measures</li> </ul> Use of networking architectures and principles for security <ul style="list-style-type: none"> <li>B1. Network types</li> <li>B2. Network components</li> <li>B3. Networking infrastructure services and resources</li> </ul>
	Unit 4: Relational Database Development	Understand how the principles of relational database models, data storage and normalisation are used to create effective relational database solutions <ul style="list-style-type: none"> <li>A1. Relational database management systems</li> <li>A2. Manipulating data structures and data in relational databases</li> <li>A3. Normalisation</li> <li>A4. Preliminary scoping of a relational database solution in response to a client brief</li> </ul>
Spring	Unit 2: Cyber Security and Incident Management	Cyber security documentation <ul style="list-style-type: none"> <li>C1. Internal policies</li> </ul> Forensic procedures <ul style="list-style-type: none"> <li>D1. Forensic collection of evidence</li> <li>D2. Systematic forensic analysis of a suspect system</li> </ul>

Year 13 2026/27	Focus / Topic	Knowledge & Skills Provisional plan subject to refinements	
	Unit 4: Relational Database Development	Design a relational database solution to meet client requirements B1. Relational database design techniques and processes B2. Design documentation B3. Reviewing and refining designs  Develop a relational database solution to meet client requirements C1. Producing a database solution C2. Testing the database solution C3. Reviewing the database solution C4. Optimising the database solution	
Summer	Unit 2: Cyber Security and Incident Management	Revision	Externally assessed exam May 2027
	Unit 4: Relational Database Development	Pearson Set Assignment Brief (15 hours)	Internal assessment <ul style="list-style-type: none"> <li>• <a href="#">Submission</a> due Jul.</li> </ul>

*The course ends mid-May.*