BTEC Extended Certificate in IT
Key Stage 5 Learning Journey

Year 13

Unit 4: Relational Database Development (Spring)

- Relational database design techniques and processes
- Design documentation
- Reviewing and refining designs



Unit 4: Relational Database Development (Spring)

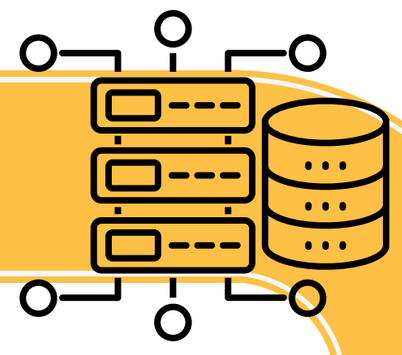
- Producing, testing, reviewing and optimising a database solution

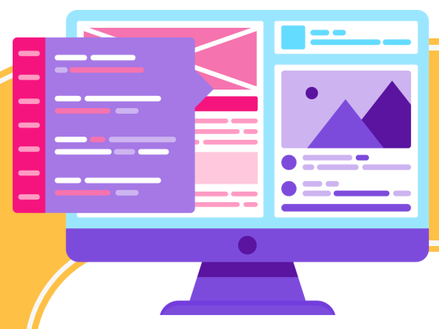
LEARNING AIMS A, B AND C OF THIS COURSEWORK WILL BE COMPLETED BY MAY HALF-TERM



Unit 4: Relational Database Development (Spring)

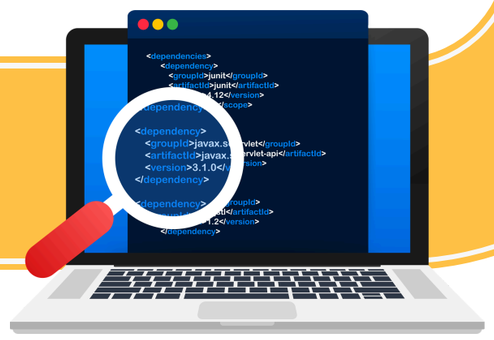
- Relational database management systems
- Manipulating data structures and data in relational databases
- Normalisation





Unit 3: Website Development (Autumn)

- Website development process
- Website testing



Unit 3: Website Development (Autumn)

- Website design
- Asset management techniques
- Planning a website in response to a client brief
- Common tools and techniques to produce a website



Unit 2: Cyber Security and Incident Management Learning Outcomes (Spring)

- Cyber security threats
- System vulnerabilities
- Legal responsibilities
- Software and hardware security measures
- Network types, components and infrastructure services and resources

Year 12

Unit 2: Cyber Security and Incident Management Learning Outcomes (Spring)

- Cyber security documentation and internal policies
- Forensics procedures and collection of evidence
- Systematic forensic analysis of suspect systems





Unit 3: Website Development (Summer)

- Purpose and principles of websites
- Planning a website in response to a client brief

LEARNING AIM A OF THIS COURSEWORK WILL BE COMPLETED BY THE SUMMER HOLIDAYS OF YEAR 12



Unit 1: IT Systems (Autumn)

- Operating online
- Protecting data and information
- The impact of IT systems on individuals and organisations
- Moral, ethical and legal issues

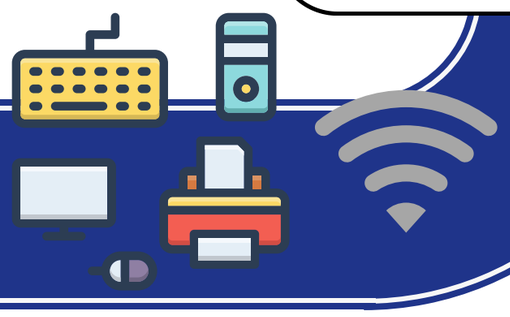
EXAMINATION - JANUARY 2027

Year 12



Unit 1: IT Systems (Autumn)

- Digital devices used in IT systems and how the operate
- Peripheral devices and media
- Computer software in IT systems
- Choosing IT systems
- Emerging technologies
- Transmitting data: connectivity, networks, security and bandwidth



Year 13 Overview

Students will continue with their studies of website development and will study Cyber Security and Incident Management. They will continue their development of specialist knowledge and understanding of the use of ICT by moving on to Relational Database Development. They will do one externally and one internally assessed unit in each year.

Year 12 Overview

Throughout the course students will gain specialist knowledge and understanding of the use of ICT. They will be introduced to Information Technology Systems. They will also start the Website Development unit in Year 12. The course units will enable students to develop skills for independent study and practical skills related to IT.

"Information technology and business are becoming inextricably interwoven. I don't think anybody can talk meaningfully about one without talking about the other."

Bill Gates