

# Curriculum Overview

Subject: IT  
Diploma Year 12

The curriculum provides the knowledge and understanding required to support other units in the qualification. Learners study the basics of computer hardware, software, and information systems which prepares them for higher education, apprenticeships, or employment in the digital sector.

TERM 1	TERM 2	TERM 3
<p><b>KNOWLEDGE/SKILLS</b> Half term 1: <b>Unit 1</b></p> <ul style="list-style-type: none"> <li>Understand computer hardware, software, business IT systems.</li> <li>Employability and communication skills used in an IT environment.</li> <li>Understand ethical issues and threats to computer systems.</li> <li>Understand operational issues and threats to computer systems.</li> </ul> <p>Half term 2: <b>Unit 2</b></p> <ul style="list-style-type: none"> <li>Understand how the global information is used and how it is transmitted.</li> <li>Understand the styles.</li> <li>Classification and the management of global information</li> <li>The use of global information and the benefits to individuals and organisations</li> <li>The principles of information security</li> </ul>	<p><b>KNOWLEDGE/SKILLS</b> Half term 1: <b>Unit 4</b></p> <ul style="list-style-type: none"> <li>Understand the concepts of Networks.</li> <li>Plan Computer Networks to meet client requirements.</li> <li>Present network solutions to the clients</li> <li>Be able to plan for maintenance computer networks.</li> </ul> <p>Half term 2: <b>Unit 17</b></p> <ul style="list-style-type: none"> <li>Understand what if meant by the internet of Everything (IoE)</li> <li>Be able to repurpose technologies to extend the scope of the IOE.</li> <li>Be able to present concepts ideas for repurposed developments</li> </ul>	<p><b>KNOWLEDGE/SKILLS</b> Half term 1: <b>Unit 18</b></p> <ul style="list-style-type: none"> <li>How a CPU works</li> <li>Planning a computer Systems</li> <li>Discovering single points of failure</li> <li>Computer clustering</li> <li>Disk drive redundancy, NAS, and SAN</li> <li>Load balancing</li> <li>BIOS configurations, repair</li> </ul> <p>Half term 2: <b>Unit 19</b></p> <ul style="list-style-type: none"> <li>Understand different software installations and their purpose.</li> <li>Be able to implement software installations and upgrades to meet specified user requirements.</li> <li>Be able to conduct system maintenance using utility software.</li> <li>Understand different software installations and their purpose</li> </ul>
<p><b>KEY ASSESSMENTS</b> Half term 1: Written portfolio, externally set by exam board, assessed internally. Half term 2: PPE unit 1 and unit 2.</p>	<p><b>KEY ASSESSMENTS</b> Half term 1: Written portfolio, externally set by exam board, assessed internally. Half term 2: Written portfolio, assessed internally PPE unit 1 and unit 2</p>	<p><b>KEY ASSESSMENTS</b> Half term 1: Written portfolio, externally set by exam board, assessed internally. Half term 2: Re-sit unit 1 and unit 2</p>

Extended reading suggestions and external resources: Used for assessments unit samples.

OCR: <https://www.ocr.org.uk/qualifications/cambridge-technicals/information-technology/>

Computer Science Newbies: <https://www.csnewbs.com/> - Used for Unit 1 and Unit 2 Exam based questions.