

Year 12 ICT

Overall Intent:

To develop a sound and secure understanding of the key Information Technology concepts. In year 12, students will develop a sound understanding of IT technologies and practices which are essential for IT professionals and future employment. The information that students learn in this unit will provide a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how business uses IT. After completing this unit, the knowledge, skills and understanding students have developed will underpin their study for the additional units, which will support students' progress and transition into the year 13 course.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/area of study	UNIT 1: FUNDAMENTALS OF IT		UNIT 2: GLOBAL INFORMATION UNIT 1 EXAM		UNIT 2: GLOBAL INFORMATION UNIT 2 EXAM UNIT 8 COURSEWORK	
Key learning aims – knowledge and skills	<p>Students will:</p> <p>Be able to discuss the characteristics of good information.</p> <p>Understand the issues related to use of information.</p> <p>Describe the features and functions of information systems.</p> <p>Use IT tools to produce management information.</p> <p>Analyse the legal and ethical implications of</p>	<p>Students will:</p> <p>Understand computer hardware.</p> <p>Understand computer software.</p> <p>Understand business IT systems.</p> <p>Understand employability and communication skills used in an IT environment.</p> <p>Understand ethical and operational issues and threats to computer systems.</p> <p>Learn and apply exam revision and techniques.</p>	<p>Students will:</p> <p>Be able to use IT to communicate effectively.</p> <p>Be able to address personal development needs.</p> <p>Explain the personal attributes valued by employers and explain the principles of effective communication.</p> <p>Discuss potential barriers to effective communication.</p> <p>Demonstrate a range of effective interpersonal skills.</p>	<p>Students will:</p> <p>Understand how organisations use business information.</p> <p>Learn how to compare legal, ethical and operational issues that may affect organisations.</p> <p>Learn the features and functions of information systems.</p> <p>Know how to identify the information systems used in a specified organisation.</p>	<p>Students will:</p> <p>Understand the features of relational databases.</p> <p>Explain the features of a relational database.</p> <p>Justify choices made in the design of the relational database.</p> <p>Create features in data entry forms to ensure validity and integrity of data.</p> <p>Perform queries using multiple tables and multiple criteria.</p>	<p>Students will:</p> <p>Understand what the typical phases of a project life cycle are.</p> <p>Know and be able to evaluate and compare different project methodologies.</p>

	<p>the illustrated input and outputs.</p> <p>Be able to use IT tools to produce management information.</p>		<p>Explain how some of the potential barriers can be reduced.</p>		<p>Include an advanced feature in a database design.</p>	
Assessment	Unit 1 mock exam	Unit 1 mock exam	Unit 1 external exam	Unit 2 mock exam	Unit 2 mock exam	Opportunity to resit unit 1 external exam