

Course Outline: IT (Cambridge Technicals Level 3) Year 12

Rationale: To gain a sound understanding of IT technologies and practices, we need to look at the fundamentals of IT for a solid foundation in the use of hardware, networks, software, the ethical use of computers and how businesses use IT. This first unit will underpin other units in the course such as project management and web design and prototyping.

	CONTENT	KEY/FUNDAMENTAL CONCEPTS	ASSESSMENT
Autumn Term	Understanding computer hardware	Computer hardware Computer components	In book formative assessment on computer hardware
	Half-term		
	Understanding computer hardware	Types of computer system Connectivity methods Communication hardware Hardware troubleshooting Units of measurement	End of unit test
Christmas Holiday			
Spring Term	Understanding computer software	Types of software Applications software Utility software Operating systems	End of unit test
	Half-term		
	Understanding IT systems	Communication methods Software troubleshooting Protocols Types of servers Virtualisation Networking Characteristics Connectivity methods Business systems	End of unit test
Easter Holiday			
Summer Term	Understanding employability and communication	Communication skills Communication technology Personal attributes Ready for work Job roles Professional bodies Industry certification Number systems Number conversions	End of unit test
	Half-term		
	Understand the project life cycle	Project methodologies Project life cycle Project issues Documentation Main control registers and plans	Coursework components: P1,P2,M1,D1



Course Outline: IT (Cambridge Technicals Level 3) Year 13

	CONTENT	KEY/FUNDAMENTAL CONCEPTS	ASSESSMENT
Autumn Term	Be able to initiate and plan projects	Initiation phase Planning phase	Coursework components: P3,P4,M2,D2
	Half-term		
	Be able to execute projects	Execution phase	Coursework components: P5,D3
Christmas Holiday			
Spring Term	Be able to carry out project evaluations	Evaluation phase	Coursework components: P6,M3
	Half-term		
	Be able to create a prototype websites for an identified client	Creating a prototype Interactive elements Testing to include Evaluate against needs	Coursework components: P4,P5,M2,D2
Easter Holiday			
Summer Term	Be able to present the interactive website concept to an identified client	Presenting the solution Future security and maintenance considerations	Coursework components: P6,M3
	Half-term		