CTEC Level 3 ICT Year 12 Curriculum Map

Term One Unit 1	Term Two Unit 1	Term Three Unit 2
 Topics: LO1: Understand computer hardware LO2: Understand computer software LO3: Understand business IT systems Xey Learning: 1.1 Computer hardware 1.2 Computer components 1.3 Types of computer systems 1.4 Connectivity methods 1.5 Communication hardware 1.6 Hardware troubleshooting 1.7 Units of measurement 1.8 Number systems 1.9 Number conversion 2.1Types of software 2.3 Utility software 2.4 Operating systems 2.5 Communication methods 2.6 Software troubleshooting 2.7 Protocols 3.1 Types of servers 3.2 Virtualisation 3.3 Networking characteristics 3.4 Connectivity methods 3.5 Business systems 	 Fopics: 4.04: Understand employability and communication skills used in an IT environment. LO5: Understand ethical and operational issues and threats to computer systems Method Schwarz Schwarz 4.1 Communication skills 4.2 Communication technology. 4.3 Personal attributes 4.4 Ready for work 4.5 Job roles 4.6 Professional bodies 4.7 Industry certification 5.1 Ethical issues 5.2 Operational issues 5.3 Threats 5.4 Physical security 5.5 Digital security 5.6 Safe disposal of data and computer equipment Assessment: End of unit assessment External Assessment 	 Fopics: LO1: Understand where information is held globally and how it is transmitted LO2: Understand the styles, classification and the management of global information. <i>Explearning:</i> 1.1 Holders of information 1.2 Types of information storage media 1.3 Types of information access and storage devices 1.4 The internet 1.5 World Wide Web 1.6 Information formats 1.7 Advantages 2.1 Information talsification 2.3 Quality of information 2.4 Information management Assessment: Weekly quizzes and examination questions

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Term Four Unit 2	Term Five Unit 2	Term Six Unit 3 & 17
 Fopics: 4.03: Understand the use of global information and the benefits to individuals and organisations 4.04: Understand the legal and regulatory framework governing the storage and use of global information. 4.05: Understand the process flow of information 4.05: Understand the process flow of information 3.2 Categories of information used by individuals 3.3 Categories of information used by organisations 3.4 Stages of data analysis 3.5 Data analysis tools 3.6 Information system structure 4.1 Uk legislation and regulation relating to the storage and used of information 4.2 Global information protection legislation and regulation 4.3 Green IT 5.1 Information sources and data types 5.2 Data flow diagrams 	<section-header> Fopics: a. LO6: Understand the principles of information security. Exercise: A Principles of information security. A Protection measures. A Protection measures. A Protection protection. A Sessment: End of unit assessment. External Assessment. </section-header>	 Topics: Unit 3 LO1: Understand what is meant by cyber security LO2: Understand the issues surrounding cyber security Key Learning: 1.1 Cyber security aims to protect information 1.2 Types of cyber security incidents 1.3 The importance of cyber security 2.1 Threats of cyber security 2.2 Types of attackers Unit 17 LO1: Understand what is meant by the Internet of Everything Key Learning: P1: Explain the concept of the IoE P2: Explain the four (4) pillars of the IoE and how its innovations can transform businesses LO2: Be able to repurpose technologies to extend the scope of the IoE Key Learning:

• *P3:* Outline potential development projects that could extend the scope of the IoE

Assessment: Weekly quizzes and examination questions. Submission and assessment of P1 and P2.

CTEC Level 3 ICT Year 13 Curriculum Map

Term One Unit 3/Unit 17	Term Two Unit 3/Unit 17	Term Three Unit 17
 Topics: Unit 3 LO2: Understand the issues surrounding cyber security Key Learning: 2.3 Motivation for attackers 2.4 Targets for cyber security 2.5 Impacts of attackers 2.6 Other consideration of cyber security 	 Topics: Unit 3 LO4: Understand how to manage cyber security incidents Key Learning: 4.1 Responding to an incident 4.2 Cyber security incident report Assessment: End of unit assessment 	 Topics: Unit 17 LO1: Understand what is meant by the Internet of Everything Key Learning: M1: Analyse the global impacts of the IoE on society and the environment. D1: Evaluate the potential negative impacts of these innovations on businesses.
 LO3: Understand measures used to protect against cyber security incidents Key Learning: 3.1 Cyber security risk management 3.2 Testing and monitoring measures 3.3 Cyber security controls Unit 17 LO1: Understand what is meant by the Internet of Everything 	 External Assessment Unit 17 LO3: Be able to present concept ideas for repurposed developments Key Learning: P4: Prepare a business proposal pitch to potential stakeholders on the chosen development project. 	 LO2: Be able to repurpose technologies to extend the scope of the IoE Key Learning: M2: Conduct a feasibility study on one of these development projects. LO3: Be able to present concept ideas for
 Key Learning: P1: Explain the concept of the IoE P2: Explain the four (4) pillars of the IoE and how its innovations can transform businesses LO2: Be able to repurpose technologies to extend the scope of the IoE Key Learning: P3: Outline potential development projects that could extend the scope of the IoE Assessment: Marking of completed sections of coursework. 	 P5: Deliver a business proposal pitch to potential stakeholders on the chosen development project. Assessment: Marking of completed sections of coursework. 	 repurposed developments Key Learning: M3: Revise business proposal for the chosen development project incorporating stakeholder feedback. D2: Evaluate the success criteria that would be used to judge the sustainability of the chosen development project. Assessment: Unit 17 Internal and External Moderation.

CTEC Level 3 ICT Year 13 Curriculum Map

Term Four Unit 8	Term Five Unit 8	Term Six Unit 8
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