

## Core ICT & Computer Science Year 11

### LEARNING BLOCK 1

<p><b>KNOWLEDGE</b></p>	<p>Students will develop their knowledge of the different threats that could affect a computer system and the storage of data and information. They will develop a knowledge of the following:</p> <ul style="list-style-type: none"> <li>•Threats to computer systems</li> <li>•Threats that could be exploited in a cyber attack</li> <li>•Impact of a cyberattack</li> <li>•Methods to prevent data loss</li> <li>•IT legislations</li> </ul> <p>Students will also revisit the following topics in preparation for the R012 exam</p> <ul style="list-style-type: none"> <li>•Project lifecycle and planning tools</li> <li>•Difference between data and information</li> <li>•How data can be collected and stored</li> </ul>
<p><b>SKILLS</b></p>	<ul style="list-style-type: none"> <li>•Identify the different threats that could impact a computer system and identify the methods to prevent data loss</li> <li>•Develop an understanding of IT laws and how it governs data collection</li> <li>•Identify the stages of the project lifecycle</li> <li>•Identify the features of the different project planning tools</li> <li>•Identify the advantages and disadvantages of the different project planning tools</li> <li>•Identify the difference between data and information</li> <li>•Identify the different data types and which data falls into each data type.</li> <li>•Identify the methods that can be used to collect data.</li> </ul>
<p><b>ASSESSMENT</b></p>	<ul style="list-style-type: none"> <li>•End of topic assessment</li> <li>•In class activities</li> </ul>

## LEARNING BLOCK 2

<b>KNOWLEDGE</b>	<p>Students will complete their set assignment for this course. In the course of this task students will need to demonstrate the following knowledge:</p> <ul style="list-style-type: none"><li>•The stages of the project lifecycle – students will need to follow the project lifecycle to complete the project</li><li>•Analyse the brief and describe the user requirements</li><li>•Identify possible risks that could be face during the project and how these risks could be mitigated</li><li>•Describe IT legislations that need to be considered during this project</li><li>•Identify the objectives and success criteria for this project</li><li>•Create a project plan to show how the project will be completed</li><li>•Create designs for the solution to the problem</li><li>•Create a plan of how the final product will be tested</li><li>•Create a solution to meet the client requirements</li><li>•Review their progress at key points in the project</li><li>•Create user documentation for the final solutions</li><li>•Complete an evaluation of the final product</li></ul>
<b>SKILLS</b>	<ul style="list-style-type: none"><li>•Analysis of a client brief</li><li>•Objectives and success criteria setting</li><li>•Report writing</li><li>•Project planning</li><li>•Design skills</li><li>•Creating a working solution</li><li>•Evaluation skills</li></ul>
<b>ASSESSMENT</b>	<ul style="list-style-type: none"><li>•End of project assessment</li></ul>

## LEARNING BLOCK 3

<b>KNOWLEDGE</b>	N/A – Study leave
<b>SKILLS</b>	
<b>ASSESSMENT</b>	