*Unit 10: Communication Technologies*

Code: Green-compulsory Blue - choice

**P5**

Describe the principles of signal theory. This can be in the format of a presentation or a word processed document.

***Signal theory*:**

Digital signalling methods;

Representing data electronically eg bits, bytes, packet structures

Synchronous transmission;

Asynchronous transmission;

Error detection;

Error correction;

Bandwidth limitation;

Bandwidth noise;

Channel types eg telephone, high frequency (HF) radio, microwave, satellite

Bandwidth, data compression

***Introduction***

***Main body***

* Describe topic
* Advantages and disadvantages of the topic
* Present using a diagram if possible

***Reference:***

***Keywords:***

***Signal theory -***

***Book: Page 321-327***

[***http://www.divinekonection.info/articles/What-is-Signal-Theory-a2.html***](http://www.divinekonection.info/articles/What-is-Signal-Theory-a2.html)