



*Higher Diploma in Science in Software Development*

# **Web Applications Development**

## **Final Assessment**

**This assessment is worth 50% of the marks for this module**

(Part 1 is worth 40% - Part 2 is worth 10%)

**Due Date: Monday 15<sup>th</sup> May @ 9pm**

### **Part 1**

#### **Business Website Development Assignment (40%)**

For this assignment, you must create a business e-commerce website that employs the principles of HTML5, CSS and JavaScript which meets the requirements specified below.

The business can be of your choosing. You must employ a common design theme and colour scheme throughout.

#### **Requirements**

##### **Your website should:**

- allow the user to 'purchase' items from the site;
- allow the customer to enter their login details and have login details validated (via a login screen) before receiving a summary of the order;
- perform form validation through JavaScript to ensure that:
  - text fields are not empty;
  - a valid email address is entered.
- include a slideshow which displays a different image each time the page is loaded;
- access and change HTML on the web page through the DOM;
- access and change styling through the DOM;
- demonstrate the use of events;
- connect to a database that contains relevant site information (eg., product info);
- be hosted in the cloud (eg., Azure).

### **Part 2**

#### **Essay: The Architecture of the World Wide Web (10%)**

Outline the architecture of the World Wide Web, making reference to relevant technologies including HTTP, FTP, cookies and web servers.

##### ***Specification:***

Your essay should be approximately 1,500 words in length.

The document is to be uploaded in moodle via a turnitin link.

***Note: If you are quoting from a resource then you must cite the resource using an appropriate citation style, such as Harvard or APA.***