

<b>Module Title</b> <b>Computing Information Systems</b>	Reference CM1016 SCQF Level SCQF 7 SCQF Points 30 ECTS Points 15 Created March 2007 Approved August 2007 Amended September 2012 Version No. 2
<b>Keywords</b> Information Systems, Hardware and Operating Systems, Web Searching, Web Site Design, Data Management	

## This Version is No Longer Current

The latest version of this module is available [here](#)

### Prerequisites for Module

None, in addition to course entry requirements.

Definition of hardware. The Central Processing Unit, memory and storage of data. Peripheral devices. Introduction to networks and communication.

### Corequisite Modules

None.

Web search engines and browsing. The Web as an information system. Critical evaluation of data sources.

### Precluded Modules

None.

Markup languages. Web site design and implementation using managed content frameworks.

### Aims of Module

To provide the student with a basic knowledge and understanding of Information Technology and practical skills in the use of Business Information Technology applications and in the collaborative design and

### Indicative Student Workload

<i>Contact Hours</i>	Full Time
Assessment	20
Laboratories	24
Lectures	48
Supervised Group Work	24

*Directed Study*

development of web sites.

## Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1. Use a range of Business Information Technology Applications to produce structured documents, presentations and solutions to numerical problems paying due regard to efficient and effective computer-human communication.
2. Use data formats, data manipulation techniques and file structures to represent, process and store data appropriately.
3. Explain the use, structure and operation of a range of hardware devices and operating systems.
4. Make effective use of the web to find, collect, critically evaluate and report on information sources.
5. Design and implement web sites capable of effectively conveying and integrating information in a variety of different forms.

## Indicative Module Content

The module provides an

Directed Information Gathering	24
Unsupervised Group Work	28
<i>Private Study</i>	
Private Study	132

## Mode of Delivery

This module is delivered throughout the teaching session. Learning outcome 1 is delivered in practical sessions which make extensive use of computer-based training material integrated into the activities of other modules, and by directed independent learning which takes the form of directed reading and independent research to support the subject content. Learning outcomes 2 and 3 will take place during scheduled lab sessions and will require practical use of the tools and facilities identified for each application studied.

Assessment of learning outcomes 4 and 5 will take the form of a group project within a design brief.

## Assessment Plan

	Learning Outcomes Assessed
Component 1	1,2,3,4,5

introduction to:

Practical competence in the use of a range of Business Information Technology applications: word-processors, spreadsheets, graphic presentation tools, PDF editors, database packages. Practical competence in the use of a typical operating system, network login, file management, management of email.

Representation of data including binary and hexadecimal numerical data, ASCII code, bitmaps and object map graphics.

## Component 1 - Coursework

### **Indicative Bibliography**

- 1.MURPHY, C., CLARK R., STUDHOLME, O., and MANIAN D., 2012. Beginning HTML5 and CSS3. Apress.
- 2.FRAN B., 2012. Responsive Web Design with HTML5 and CSS3. Packt.
- 3.GEDDES M., 2014, Arduino Project Handbook, Sketch Publishing
- 4.SHIFFMAN, D., 2012. The Nature of Code, Shiffman Publishing, 0985930802