MODULE DESCRIPTOR

Module Title

Computing Information Systems

Reference	CM1016	Version	6
Created	September 2017	SCQF Level	SCQF 7
Approved	August 2007	SCQF Points	30
Amended	September 2017	ECTS Points	15

Aims of Module

To provide the student with a basic knowledge and understanding of Information Technology and in the collaborative design and development of web sites.

Learning Outcomes for Module

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

1	Use data formats, data manipulation techniques and file structures to represent, process and store data appropriately.
2	Explain the use, structure and operation of a range of hardware devices and operating systems.
3	Make effective use of the web to find, collect, critically evaluate and report on information sources.
4	Collect, organize and discuss the value of information accessed using web resources.
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 introduction to: Practical competence in the use of a typical operating system, network login, file management. Representation of data including binary and hexadecimal numerical data, ASCII code, bitmaps and object map graphics. Definition of hardware. The Central Processing Unit, memory and storage of data. Peripheral devices. Introduction to networks and communication. The Web as an information system: web search engines, browsing, information retrieval. Critical evaluation of data sources, written communication: reporting and summarizing information. Markup languages. Stylesheets, JavaScript. Web site design and implementation using managed content frameworks.

Module Delivery

Learning outcomes 1 and 2 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 3, 4 and 5 will take the form of a group project within a design brief.

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Indicative Student Workload	Full Time	Part Time
Contact Hours	120	N/A
Non-Contact Hours	180	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	A piece of coursework.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The calculation of the overall grade for this module is based on 100% weighting of Component 1. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	To achieve an A, the student needs to achieve an A in Component 1
B	To achieve a B, the student needs to achieve a B in Component 1
C	To achieve a C, the student needs to achieve a C in Component 1
D	To achieve a D, the student needs to achieve a D in Component 1
E	To achieve an E, the student needs to achieve an E in Component 1
F	To achieve an F, the student needs to achieve an F in Component 1
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	None, in addition to course entry requirements.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1. MURPHY, C., CLARK R., STUDHOLME, O., and MANIAN D., 2012. Beginning HTML5 and CSS3. Apress.
2. FRAIN 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