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MODULE DESCRIPTOR

Module Title

Web Design Technologies

Reference	CM1114	Version	1
Created	September 2020	SCQF Level	SCQF 7
Approved	March 2021	SCQF Points	15
Amended		ECTS Points	7.5

Aims of Module

This module gives a general introduction to information systems, including information architecture and the development of web-based information systems. It provides students with practical knowledge of the information system development process, associated techniques and technologies with a focus on web-based information systems.

Learning Outcomes for Module

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

1	Explain key components of information systems, information system analysis, design and implementation.
2	Make effective use of the web to find, collect, critically evaluate and report on information sources.
3	Design and implement websites capable of effectively conveying and integrating information in a variety of different forms.
4	Demonstrate an understanding of the importance of accessibility and describe the factors that enhance accessibility within a website.
5	Describe the main security risks associated with information systems and how these can be managed.

Indicative Module Content

This module provides an introduction to: Information systems and information architecture. The Web as an information system: web search engines, browsing, information retrieval. Critical evaluation of data sources, written communication: reporting and summarising information. Markup languages. Stylesheets, JavaScript. Web site design and implementation using managed content frameworks. Problem solving associated with discovering and learning to use cutting-edge web technologies effectively. Module content will allow for an introduction to client-side security such as user input validation. CIA triad Standards and Best Practice Guides: ISO 27001, ISO 27005.

Module Ref:	CM1114 v1

Module Delivery

The module will be delivered through a combination of lectures and lab sessions. Learning outcomes will take the form of a group project within a design brief, allowing students to work as development team members. Instruction will take place during scheduled lab sessions and will require practical use of the tools and facilities identified for each application studied, thus allowing students to apply the theory learnt during lectures into implementing and evaluating their end-product.

Indicative Student Workload	Full Time	Part Time
Contact Hours	36	N/A
Non-Contact Hours	114	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	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:	This is a practical coursework assessment which involves designing, implementing and evaluating an original website.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The calculation of the overall grade for this module is based on 100% weighting of C1. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	The student needs to achieve an A in C1.
B	The student needs to achieve a B in C1.
C	The student needs to achieve a C in C1.
D	The student needs to achieve a D in C1.
E	The student needs to achieve an E in C1.
F	The student needs to achieve an F in C1.
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	Coulson, L., Jephson, B., Larsen, R., Park, M. and Zburlea, M., 2019. The HTML And CSS Workshop. Packt.
2	Ranjan, A., Sinha, A. and Battewad, R., 2020. JavaScript for Modern Web Development: Building a Web Application Using HTML, CSS, and JavaScript. BPB.
3	DUCKETT J., 2014. Javascript & JQuery: Indicative Front-End Development. Wiley.
4	W3 Schools, 2020. https://www.w3schools.com/. [Online] W3
5	BOCIJ, P., GREASELY, A., HICKIE, A., 2015. Business Information Systems, 5th Ed.: Technology, Development and Management for E-Business, 5/E, Pearson Ed.