

MODULE DESCRIPTOR

Module Title

Intranet Systems Development

Reference	CMM007	Version	7
Created	June 2022	SCQF Level	SCQF 11
Approved	April 2005	SCQF Points	15
Amended	July 2022	ECTS Points	7.5

Aims of Module

To introduce and explore the key concepts of intranet systems development. To develop the student's skill in the practical design, development and management of intranet systems.

Learning Outcomes for Module

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

- 1 Design and implement a dynamic web application from a set of created requirements.
- 2 Demonstrate the ability to secure and perform simple penetration testing on a web application.
- 3 Identify and describe technologies that are used within a client/server side web application.
- 4 Understand the concepts needed to create large-scale web applications.

Indicative Module Content

Key concepts of designing and developing interactive web application using a full stack approach. The module will review the latest technological trends used in modern web design and development including emerging development techniques and practices. This will lead to coverage of the development and deployment of an interactive web application including aspects such as front end design, client-side scripting, data capture, data storage for web applications and server-side processing. Approaches to testing the effectiveness, efficiency and security of web applications will also be introduced.

Module Delivery

The module is taught using a combined lecture and lab method. Theoretical concepts are delivered through lecture material, giving students the opportunity to learn about the systems and infrastructures that exist in web applications. Lab material focuses on the development of skills to enable students to create web applications using a variety of modern web technologies.

Indicative Student Workload	Full Time	Part Time
Contact Hours	30	30
Non-Contact Hours	120	120
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	150
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
 Description: A coursework assessing all learning outcomes.

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 of D is required to pass this 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.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 DUCKETT, J. 2011. HTML and CSS: Design and Build Websites. John Wiley & Sons.
- 2 DUCKETT, J. 2014. JavaScript and JQuery: Interactive Front-End Web Development. Wiley Publishing. Chicago.
- 3 KRAUSE, J. 2017. Introducing Web Development. Springer
- 4 DARLINGTON, K. 2005. Effective Website Development: Tools and Techniques
- 5 World Wide Web Consortium, Web Design and Applications, <http://www.w3.org/standards/webdesign/>