

## This Version is No Longer Current

The latest version of this module is available here

#### **MODULE DESCRIPTOR**

#### **Module Title**

Enterprise Web Systems				
Reference	CM4025	Version	7	
Created	June 2022	SCQF Level	SCQF 10	
Approved	September 2012	SCQF Points	15	
Amended	July 2022	ECTS Points	7.5	

#### Aims of Module

To provide the student with an understanding of the main principles involved in the development of web-based enterprise systems and with an appreciation of the key issues involved. To develop the student's skill in the practical development of web systems with a focus on modelling and interacting with data.

#### Learning Outcomes for Module

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

- Appraise the advantages and disadvantages of available web architectures and describe the key considerations for developing enterprise applications.
- 2 Demonstrate an understanding of key security issues on the web and how they affect enterprise systems.
- Appraise alternative approaches to modelling and interacting with data, and demonstrate their use in web systems.
- 4 Develop client-server systems and present these as client applications or web services.

#### Indicative Module Content

Multi-tier client/server architectures, application performance and scalability, data integrity and security, legacy systems.

#### **Module Delivery**

The course is lecture and laboratory based. The lectures introduce key concepts to give students an awareness of the relevant issues in the development of enterprise-scale web systems. The laboratories will allow the student to progress through a sequence of exercises to develop practical skills in enterprise web development. The understanding of the student is further enhanced through directed reading.

	Module Ref:	CM402	5 v7
Indicative Student Workload		Full Time	Part Time
Contact Hours			N/A
Non-Contact Hours		120	N/A
Placement/Work-Based Learning Experience [Notional] Hours			N/A
TOTAL			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					
Туре:	Examination	Weighting:	50%	Outcomes Assessed:	1, 2, 3
Description:	A closed book examination.				
Component 2					
Туре:	Coursework	Weighting:	50%	Outcomes Assessed:	4
Description: A practical coursework involving the implementation of a complete web system (front and back-end).					

# MODULE PERFORMANCE DESCRIPTOR

### **Explanatory Text**

The calculation of the overall grade for this module is based on equal weighting of C1 and C2. An overall minimum grade D is required to pass the module.

		Coursework:						
		Α	В	С	D	Е	F	NS
	Α	А	А	В	В	С	Е	
	В	А	В	В	С	С	Е	
	С	В	В	С	С	D	Е	
Examination:	D	В	С	С	D	D	Е	
	E	С	С	D	D	Е	Е	
	F	Е	Е	Е	Е	Е	F	
	NS	Non-submission of work by published deadline or non-attendance for examination						adline or

Module Requirements					
Prerequisites for Module	CM1015 Software Design and Development CM2003 Dynamic Web Programming				
Corequisites for module	None.				
Precluded Modules	None.				

#### INDICATIVE BIBLIOGRAPHY

- 1 NIXON, R., 2018. Learning PHP, MySQL & JavaScript: with jQuery, CSS & HTML5. O'Reilly (WILEY UK); 5th ed. edition ISBN : 978-1491978917
- 2 bin Uzayr, S., Cloud, N. and Ambler, T., 2019. JavaScript Frameworks for Modern Web Development. Apress.
- 3 Zammetti, F., 2020. Modern Full-Stack Development: Using TypeScript, React, Node. js, Webpack, and Docker. Apress.
- 4 TAYLOR, A, ALEXANDER, D., FINCH, A., & SUTTON, D., 2020. Information Security Management Principles. 3rd Ed. BCS ISBN: 978-1780175188