

MODULE DESCRIPTOR

Module Title

Dynamic Web Programming

Reference	CM2003	Version	7
Created	October 2017	SCQF Level	SCQF 8
Approved	April 2005	SCQF Points	15
Amended	October 2017	ECTS Points	7.5

Aims of Module

To introduce students to the concepts and technologies that underly web programming and to provide them with the ability to design, construct and test interactive systems running over the World Wide Web.

Learning Outcomes for Module

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

- 1 Analyse a set of requirements and design an interactive web system.
- 2 Demonstrate proficiency with individual technologies required for web programming.
- 3 Develop an interactive web client using client-side scripting.

Indicative Module Content

Design and implementation of web based interactive clients involving dynamic user interface, data capture, data validation and computation within a host environment. Case studies of applications, demonstrating important solutions and approaches used in practice. Review of current web programming technologies and standards including emerging developments. Review of web design methodologies, tools and techniques. Review of integrated development environments for web development.

Module Delivery

Key concepts are introduced and illustrated through the medium of lectures. However the main emphasis of the course is focused on the laboratory sessions in which the student will progress through a series of exercises which are intended to develop the students proficiency in the practical application of web technologies.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	48	N/A
Non-Contact Hours	102	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

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
Description:	Practical coursework.				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

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

Module Grade	Minimum Requirements to achieve Module Grade:
A	An A in C1
B	A B in C1
C	A C in C1
D	A D in C1
E	An E in C1
F	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 SCQF 8 course entry requirements or equivalent.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 HAVERBEKE,M.2014,Eloquent JavaScript; A modern Introduction to Programming. No Starch Press.
- 2 OLSSON,M.2015. JavaScript Quick Syntax reference. Apress
- 3 CHAUDHRY.M, 2015. Practical JQuery. Apress.