

Module Title Internet Based Programming	Reference CM3006 SCQF Level SCQF 9 SCQF Points 15 ECTS Points 7.5 Created August 2002 Approved April 2005 Amended November 2011 Version No. 5
Keywords Internet, World Wide Web, Web Programming, HTML, CSS, Client Side Scripting	

This Version is No Longer Current

The latest version of this module is available [here](#)

Prerequisites for Module

None, in addition to course entry requirements.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To enable the student to explore the key concepts of internet systems development.

To develop the students' skill in the practical design, development and management of internet systems.

Learning Outcomes for Module

Indicative Student Workload

<i>Contact Hours</i>	Full Time
Assessment	23
Laboratories	24
Lectures	18
Tutorials	6

Directed Study

Directed Reading	37
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Private Study

Private Study	42
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Mode of Delivery

Key concepts are introduced and illustrated through the medium of lectures. Laboratory sessions provide a series of exercises designed to develop proficiency in techniques essential to the development of web systems.

Assessment Plan

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

- 1.Design and implement a set of Web pages appropriate to a given objective.
- 2.Demonstrate proficiency with the individual technologies required in the construction of Web pages.
- 3.Develop dynamic client-side applications.

Indicative Module Content

Key concepts of internet systems including client-side scripting, CSS, HTML5. javascript and JQuery. 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.

	Learning Outcomes Assessed
Component 1	1,2,3

Component 1 - Coursework

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.