



Module Specification

Web Technologies and Platforms

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Part 1: Information

Module title: Web Technologies and Platforms

Module code: UFCFRE-30-1

Level: Level 4

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Environment & Technology

Department: FET Dept of Computer Sci & Creative Tech

Partner institutions: None

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module introduces the tools and techniques required for effective webpage design.

Features: Not applicable

Educational aims: You will learn to develop effective webpages using up-to-date tools and techniques.

Outline syllabus: Investigating different webpage templates and designs and appraising their advantages and limitations in meeting the business requirements.

Highlighting good practice and web design and programming, e.g. consistency, fast download time, dynamic and interactive tools, accessibility tools for disabled people...etc.

Explaining the requirements and limitations of different platforms, e.g. bandwidth, reliable connection, security issues, visual quality...etc.

Discussing a range of web programming languages and online database systems, e.g. XHTML, CSS, JavaScript, PHP, MySQL.

Designing, programming and linking a dynamic website that meets the requirement specifications.

Using a range of testing and evaluating measures for online applications.

Part 3: Teaching and learning methods

Teaching and learning methods: Introductory lectures covering the fundamentals and technical underpinning of the module for the first assessment before progressing onto practical delivery through a series of lessons, workshops and practical tasks in the classroom to develop the tools and techniques required to complete the practical assessment for this module. Students are also provided with access to a suitable hosting platform to support the delivery and testing of this assessment.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Understand how to plan a website and appreciate the need for a design template

MO2 Assess and communicate the suitability of the target website for different platforms.

MO3 Identify and communicate the business ethos that the website is required to convey

MO4 Demonstrate the use of a range of techniques from a number of web programming languages and protocols together to achieve the desired dynamic website

MO5 Employ an online database to provide data storage to online applications

MO6 Design, program, publish, test and evaluate an easily managed dynamic website that meets requirements

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 192 hours

Face-to-face learning = 108 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/26609ECF-0713-4033-4FF6-18D9BAEBF32B.html) via the following link <https://rl.talis.com/3/uwe/lists/26609ECF-0713-4033-4FF6-18D9BAEBF32B.html>

Part 4: Assessment

Assessment strategy: At both first sit and resit, the Web Technologies and Platforms module is assessed using a combination of a presentation and website development practical portfolio to reflect industry practice.

Students will be set a Website Development scenario/project to complete following a formal development lifecycle. The first presentation will require students to analyse the provided scenario and design a solution to meet the project requirements. These completed designs will be presented to the “client” in a presentation in which the rationale for the design choices can be proposed.

The practical portfolio will require students to required to develop, publish, and test

the website proposed in the presentation. The site should contain both Client and Server Side scripting to create a complex solution that must be published and tested on a live web hosting environment.

Tutor-lead formative feedback will be available throughout the module.

Assessment tasks:

Poster (First Sit)

Description: Poster Defence (15 mins)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Practical Skills Assessment (First Sit)

Description: Web Site development, programming and publishing

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO4, MO5, MO6

Poster (Resit)

Description: Poster Defence (15 mins)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Practical Skills Assessment (Resit)

Description: Web Site development, programming and publishing

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO4, MO5, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Applied Computing[UCW] BSc (Hons) 2023-24