STUDENT AND ACADEMIC SERVICES

UWE Bristol | University of the West of England

MODULE SPECIFICATION

Part 1: Information			
Module Title	Web Foundations		
Module Code	UFCFTN-30-0	Level	Level 3
For implementation from	2019-20		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies
Department	FET Dept of Computer Sci & Creative Tech		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Overview: This module will introduce students to the World Wide Web, several web design technologies (including HTML, CSS and JavaScript), website design processes and the web infrastructure. In particular, there is a clear focus throughout on client-side technologies. However, there will be some consideration given to server-side scripting (such as PHP, Perl or Python). The module provides a strong practical element giving the student ample opportunity to learn and practise new skills. **Educational Aims:** See Learning Outcomes **Outline Syllabus:** You will cover: HTML/CSS tags and properties JavaScript event-driven dynamic webpages Internet and WWW basics Web Protocols Web Design Standards (W3C)

Three-tier Architecture

Apache Web Server

CGI Scripting (for processing HTML forms with a dynamic response)

Teaching and Learning Methods: Teaching and learning methods will include a set of scheduled learning opportunities.

Lectures will be used to present basic concepts and context and provide an introduction to the laboratory work and independent learning.

Laboratory sessions provide space for students to initiate practice on the materials derived from the lectures.

On-going assessment will form a major part of the laboratory sessions which require students to complete tasks.

Independent learning requires students to work outside scheduled classes to continue to improve their practical skills and to work on their assignment work.

Part 3: Assessment

The assessment for this module is carefully designed to support students in developing their learning skills. The module aims to help students develop a set of practical skills for design and building static websites. Regular assessment encourages both engagement and attendance. Because of the practical nature of the learning outcomes, this module is best suited to a portfolio assessment approach.

Students will be provided with a series of individual tasks, which allow them to demonstrate their achievements with respect to the learning outcomes. The first element of the summative portfolio assessment is a Lab Logbook which will run during the first half of the module run. Each student is expected to complete a task regularly and have this assessed in-class by a tutor/peer who will then sign it off as completed and offer formative feedback to guide the student to complete the task successfully. The second element of the portfolio assessment is a small Website and associated design document to be completed individually during the second half of the module. There will be numerous opportunities for formative feedback throughout the module to help encourage student engagement.

The controlled conditions assessment is a 2-hour examination. This examination will assess the student's understanding of the various technologies used in web design and processes used to design and build web sites. It will assess learning outcomes that cannot easily be assessed through practical tasks.

Assessment is designed to be inclusive, and to take into account the range of ability that students have at the start of the course.

Assessments are designed to provide opportunities for students to be stretched and challenged.

Plagiarism is designed out by the individual nature of the assessments and the involvement of the tutor during the semester.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		19 %	A 500 word Written Design Report
Project - Component B		56 %	Individual Website
Examination - Component A	✓	25 %	Examination (2 hours)

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Resit Components	Final Assessment	Element weighting	Description
Report - Component B		19 %	A 500 word Written Design Report
Project - Component B		56 %	Individual Website
Examination - Component A	✓	25 %	Examination (2 hours)

Part 4: Teaching and Learning Methods	
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:
	<table><tr><th>Module Learning Outcomes</th><th>Reference</th></tr><tr><td>Identify and define common HTML and CSS elements and how they can be used to construct a HTML web page with clear distinction made between the web-page content, its structure and how the page is presented</td><td>MO1</td></tr><tr><td>Understand and use web servers efficiently and securely to host small websites</td><td>MO2</td></tr><tr><td>Develop a website design document that adheres to Web Design Standards (W3C) and includes layout wireframes, graphic design choices, browser compatibility issues and accessibility issues</td><td>MO3</td></tr><tr><td>Identify and explain what a three-tier web architecture is and how it is used in web development</td><td>MO4</td></tr><tr><td>Identify and explain an event-based architecture and in particular how JavaScript can be used to implement this into a small website</td><td>MO5</td></tr><tr><td>Explain how the Web-based information technology works with respect to common web protocols (such as HTTP, FTP, etc), the client-server architecture, web standards and hardware/software technologies</td><td>MO6</td></tr><tr><td>Use Python-based server-side scripting to process an HTML Form with due consideration given to input validation and dynamic response</td><td>MO7</td></tr></table>
Contact Hours	<table><tr><td colspan="2">Independent Study Hours:</td></tr><tr><td>Independent study/self-guided study</td><td>228</td></tr><tr><td>Total Independent Study Hours:</td><td>228</td></tr><tr><td colspan="2">Scheduled Learning and Teaching Hours:</td></tr><tr><td>Face-to-face learning</td><td>72</td></tr><tr><td>Total Scheduled Learning and Teaching Hours:</td><td>72</td></tr><tr><td>Hours to be allocated</td><td>300</td></tr><tr><td>Allocated Hours</td><td>300</td></tr></table>

Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/ufcftn-30-0.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Software Engineering for Business {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2019-20

Software Engineering for Business {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Computing {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2019-20