STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Web Foundations		
Module Code	UFCFTN-30-0	Level	Level 3
For implementation from	2018-19		
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		
Contributes towards	Audio and Music Technology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Audio and Music Technology {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Software Engineering for Business {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Software Engineering for Business {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Forensic Computing and Security {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Forensic Computing and Security {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Broadcast Audio and Music Technology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Broadcast Audio and Music Technology {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Computer Science {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Computer Science {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Games Technology {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Computing {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Multimedia Technology [Oct][FT][GCET][4yrs] - Not Running BSc (Hons) 2017-18 Business Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Business Computing {Foundation} {Apprenticeship} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Digital Media {Foundation}[Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Digital Media {Foundation}[Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Games Technology {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19

	Business Computing {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2018-19
	Business Computing {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2018-19
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
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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
Project - Component B		56 %	Individual Website including a 500 word Written Design Report
Laboratory Report - Component B		19 %	Lab logbook
Examination - Component A	✓	25 %	Examination (2 hours)
Resit Components	Final Assessment	Element weighting	Description
Project - Component B		75 %	Individual Website including a 500 word Written Design Report
Examination - Component A	✓	25 %	Examination (2 hours)

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Part 4: Teaching and Learning Methods	
Learning Outcomes	On successful completion of this module students will be able to:

	Module Learning Outcomes
MO1	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
MO2	Understand and use web servers efficiently and securely to host small websites
MO3	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
MO4	Identify and explain what a three-tier web architecture is and how it is used in web development
MO5	Identify and explain an event-based architecture and in particular how JavaScript can be used to implement this into a small website
MO6	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
MO7	Use Python-based server-side scripting to process an HTML Form with due consideration given to input validation and dynamic response

Contact Hours	**Contact Hours**	
	Independent Study Hours:	
	Independent study/self-guided study	228
	Total Independent Study Hours:	228
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	72
	Total Scheduled Learning and Teaching Hours:	72
	Hours to be allocated	300
	Allocated Hours	300

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