STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Web Technologies and Platforms		
Module Code	UFCFRE-30-1	Level	Level 4
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

Educational Aims: See Learning Outcomes

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.

Teaching and Learning Methods: 300 hours study time of which 108 hours will represent scheduled learning. Scheduled learning will typically include lectures, seminars, supervision and

an interactive forum.

192 hours research, independent study and preparation for assessment work. Independent learning includes hours engaged with reading, assignment preparation and completion. Student study time will be organised each week with a series of both essential and further readings and preparation for practical workshops.

Much of the teaching and learning will be class-based and will include a variety of activities such as lectures (30%), practical workshops (50%), discussions (10%) and group exercises (10%). The emphasis will be placed on the acquisition of development skills using appropriate tools and techniques.

All students are expected to attend a series of tutorials.

Part 3: Assessment

A range of assessment techniques will be employed to ensure that learners can meet the breadth of learning outcomes presented in this module alongside the ability to demonstrate transferable skills e.g. communication skills.

Poster Defence: Students will be expected to justify an approach taken to planning and designing a website with reference to the tools and techniques to be incorporated. Students should discuss the possibility of use of alternative platforms and the issues this could raise.

Website Design: develop, program and publish a dynamic website that includes the following;

A minimum of 10 web pages

Access to an online database, e.g. MySQL

A 'Contact Us' form that is validated by using JavaScript

A suitably sourced or custom-produced photo or video gallery

The aspects catered for to meet the requirements of the business HCI

A downloadable document to show statistics produced as a result of a range of testing on the website.

Note: The use of advanced tools like AJAX or jQuery will be given extra credit.

Opportunities for formative assessment exist for the assessment strategy used. Verbal feedback is given and all students will engage with personalised tutorials setting SMART targets as part of the programme design.

First Sit Components	Final Assessment	Element weighting	Description
Practical Skills Assessment - Component B	✓	75 %	Web Site development, programming and publishing FINAL ASSESSMENT
Poster - Component A		25 %	Poster Defence (15 mins) In class
Resit Components	Final Assessment	Element weighting	Description
Practical Skills Assessment - Component B	✓	75 %	Web Site development, programming and publishing FINAL ASSESSMENT
Poster - Component A		25 %	Poster Defence (15 mins)

Part 4: Teaching and Learning Methods	
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	Reference
Understand how to plan a website and appreciate the need for a design template	MO1
Assess the suitability of the target website for different platforms, e.g. mobile, extranet, intranet	MO2
Identify the business ethos that the website is required to convey	MO3
Demonstrate the use of a range of techniques from a number of web programming languages and protocols together to achieve the desired dynamic website	MO4
Employ an online database, e.g. MySQL, to provide data storage to online applications	MO5
Design, program, publish, test and evaluate an easily managed dynamic website that meets an employer's requirements	MO6

Contact Hours	**Independent Study Hours:**	
	Independent study/self-guided study	192
	Total Independent Study Hours:	192
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	108
	Total Scheduled Learning and Teaching Hours:	108
	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/index.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Applied Computing [Sep][FT][UCW][2yrs] FdSc 2019-20

Applied Computing [Sep][PT][UCW][3yrs] FdSc 2019-20