MODULE SPECIFICATION

Part 1: Information			
Module Title	Web Programming		
Module Code	UFCFB3-30-1	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: N.B. It is not intended that the following list of topics be in chronological order of presentation. For example the programming stream could be presented over the whole year as part of the scheduled lectures.

Introduction to the module: WWW, web programming and web development

Future trends for the WWW and introduction to web frameworks

Development issues (covered as appropriate throughout module)
LESP issues including usability and accessibility, Testing, Version control, green or sustainable aspects

Programming and scripting languages used to develop assignment website e.g. HTML, CSS, JavaScript, Python or PHP both running on XAMPP, also JQuery, Ajax, JSON, REST

Responsive Web Design

Web Client and Web Server

Browsers, Terminal utilities:
Apache web server
Internet and WWW basics
TCP/IP stack concepts, HTTP, FTP
HTML/CSS
HTML 4.01/5
CSS/2/3

Client-server interaction:
CGI, server side scripting e.g. Python or PHP

Database:
DB fundamentals
SQL –commands
mySQL – using phpMyAdmin to create and administer DBs

Teaching and Learning Methods: Scheduled learning:

Lectures are 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 deriving from the lectures whilst being able to receive personal support as required. Later in the year the laboratory sessions provide a space for teams and tutors to interact during the website development process.

Independent learning:

Students are expected to work outside scheduled classes on practice and assignment work. During the team-based assignment, students are also expected to self-manage their teams in terms of arranging meetings, allocating work and monitoring progress.

This module will involve 6 hours contact time per fortnight. The time will be more or less equally divided between lecture sessions and laboratory sessions

Activity (hrs)
Contact time (72)
Assimilation and development of knowledge (148)
Exam preparation (20)
Coursework preparation (60)
Total study time (300)

Part 3: Assessment

A: Group Demo and Presentation

The bulk of assessment is concentrated around a year-long group-based development of a small website and is worth 70% of the total module mark.

This assessment strategy provides continual feedback opportunities and allows students to develop their skills with the materials being presented in the lectures and laboratory sessions. The group-based working also provides numerous peer-learning opportunities.

Members of the group normally share the mark awarded for group-based activities. Individual assessment and feedback is also provided within the assessment strategy.

Each group will be expected to present their finished website to their peers and tutors in a controlled-conditions environment together with PowerPoint slides illustrating both group and individual programming skills.

B: Worksheet Assessments

The other assessment is a series of five individual worksheets that must be signed within a designated Practical session in the presence of the student and the tutor. This is so that feedback can be given regarding the progress of the student, and where that student needs to improve.

Each worksheet attracts equal marks so as the total mark for the worksheets is 30% of the total module mark, each worksheet is worth a maximum of 6% of the module marks.

If any worksheet is presented at a Practical subsequent to that designated, the tutor may at their discretion allow a proportion of the maximum mark. This would normally be up to 50% of the maximum for the worksheet i.e., 3% of the total mark.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Practical Skills Assessment - Component B		30 %	A series of individual worksheet assessments throughout the 2 semesters carried out at designated Practical sessions.
Presentation - Component A	✓	70 %	Group demo and presentation
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component B		30 %	Individual website code and written report
Examination - Component A	✓	70 %	Examination (2 hours)

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**
Identify and define common Internet/WWW concepts	MO1
Understand, select and use a range of relevant web technologies to facilitate the development of basic websites	MO2
Understand and use web servers efficiently and securely to host small websites	MO3
Create relatively complex SQL databases and use websites to interface with these databases	MO4
Consider human factors such as accessibility requirements when designing websites.	MO5
Work individually or as a team member to reflect on the development process of a small website	MO6

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/ufcfb3-30-1.html	

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Computing [Sep][FT][Frenchay][3yrs] BSc (Hons) 2019-20

Computing [Sep][SW][Frenchay][4yrs] BSc (Hons) 2019-20

Computing {Dual} [Aug][FT][Taylors][3yrs] BSc (Hons) 2019-20

Computing {Dual} [Aug][SW][Taylors][4yrs] BSc (Hons) 2019-20

Computing {Dual} [Mar][FT][Taylors][3yrs] BSc (Hons) 2019-20

Computing {Dual} [Mar][SW][Taylors][4yrs] BSc (Hons) 2019-20

Software Engineering [Oct][FT][GCET][4yrs] BEng (Hons) 2018-19

Computer Security and Forensics {Foundation} [Sep] [FT] [GCET] [4yrs] BSc (Hons) 2018-19

Computing {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19

Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19

Software Engineering [Feb][FT][GCET][4yrs] BEng (Hons) 2018-19

Computer Security and Forensics [Feb][FT][GCET][4yrs] BSc (Hons) 2018-19

Computer Security and Forensics [Oct][FT][GCET][4yrs] BSc (Hons) 2018-19