

MODULE SPECIFICATION

Part 1: Information							
Module Title	Web Programming						
Module Code	UFCFB3-30-1		Level	Level 4			
For implementation from	2020-	21					
UWE Credit Rating	30		ECTS Credit Rating	15			
Faculty	Faculty of Environment & Technology		Field	Computer Science and Creative Technologies			
Department	FET	T Dept of Computer Sci & Creative Tech					
Module type:	Stand	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

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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

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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.
Examination (Online) - Component A	√	70 %	Group demo and presentation 24 hour window
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		30 %	Individual website code and written report
Examination (Online) - Component A	✓	70 %	Examination (2 hours) 24-hour window

Part 4: Teaching and Learning Methods							
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:						
	Module Learning Outcomes						
	Identify and define common Internet/WWW concepts						
	Understand, select and use a range of relevant web technologies to facilitate the development of basic websites						
	Understand and use web servers efficiently and securely to host small websites						
	Create relatively complex SQL databases and use websites to interface with these databases Consider human factors such as accessibility requirements when designing websites.						
	Work individually or as a team member to reflect on the development small website	process of a	MO6				
Contact Hours	Independent Study Hours:						
	Independent study/self-guided study	22	8				
	Total Independent Study Hours:	22	8				

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	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:

Computer Security and Forensics [Feb][FT][GCET][4yrs] BSc (Hons) 2019-20

Computer Security and Forensics [Oct][FT][GCET][4yrs] BSc (Hons) 2019-20

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

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