



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Web Programming				
UFCFB3-30-1	UFCFB3-30-1	Level	1	Version	1
Owning Faculty	FET	Field	CSCT		
Contributes towards	BSc (Hons) Forensic Computing and Security, BSc (Hons) Computer Systems Integration, BSc (Hons) Computing, BSc (Hons) Enterprise Computing				
UWE Credit Rating	30	ECTS Credit Rating	15	Module Type	Standard
Pre-requisites	None		Co- requisites	None	
Excluded Combinations	None		Module Entry requirements	None	
Valid From	September 2012		Valid to	September 2018	

CAP Approval Date	21 May 2012
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Part 2: Learning and Teaching	
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> 1. Identify and define common Internet/WWW concepts (A1); 2. Understand, select and use a range of relevant web development tools to facilitate the development of basic websites (B1); 3. Install and use Unix-based operating systems in a WWW context (B1) 4. Install and use web servers efficiently and securely to host small websites (B1); 5. Consider human factors such as accessibility requirements when designing websites (B1); 6. Work as an effective team member to develop a small website (B2) 7. Reflect on their experiences during the development process (B1).
Syllabus Outline	<i>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 bi-weekly lectures.</i>

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

Future trends for the WWW

Development issues (covered as appropriate throughout module)
Usability and Accessibility issues, Testing, Version control

Introduction to search engine optimisation

LAMP stack

Overview, then each component individually covered and integrated

Unix and Linux

Introduction to Unix/Linux

Modern Linux variants (e.g. Ubuntu)

Linux Installation, administration and security basics

OS Scripting

bash

grep, sed, awk

Web clients

Browsers

Email

Chat/Skype

Multiplayer online games

Web servers

Apache

Internet and WWW basics

TCP/IP stack concepts, HTTP, FTP

HTML/CSS

HTML 4.01/5

CSS/2/3

Client-server interaction

CGI, FastCGI

mod_php

mod_perl

mod_python

Database

DB fundamentals

SQL – basic commands

mysql – using phpMyAdmin to create and administer DBs

Programming and scripting languages

e.g. PHP, Perl (using Mason), Python, Bash, Javascript

Contact
Hours/Scheduled
Hours

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

Teaching and Learning Methods	<p>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.</p> <p>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.</p>
Reading Strategy	<p>There are no recommended books for this module.</p> <p>Lectures will provide appropriate up-to-date online references forming the essential reading for this module – lists of these will also be available through Blackboard.</p> <p>For further readings, students will be assisted in formulating strategies for searching for relevant online information and support. In addition students will also be encouraged to access the extensive range of traditional books available physically or electronically via the UWE library.</p>
Indicative Reading List	<p><i>The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via other more frequently updated mechanisms.</i></p> <p>Indicative reading list – The prime indicative reference is: w3schools.com (2012) <i>Learn to Create Websites</i>. Available from: http://www.w3schools.com [Accessed 1 February 2012]</p> <p>UWE eLibrary resources are available at UWE eLibrary (2012). Available from http://www.uwe.ac.uk/library/elibrary/ [Accessed 1 February 2012]</p>

Part 3: Assessment

Assessment Strategy	<p>The bulk of assessment is concentrated around a year-long group-based development of a small website. This assessment strategy provides continual formative and summative assessment and 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.</p> <p>Members of the group normally share the mark awarded for group-based activities. Individual assessment and feedback is also provided within the continual assessment strategy. The aggregate continual summative assessments will be approximately 3000 words in length.</p> <p>Each group will be expected to present their finished website to their peers and tutors in a controlled-conditions environment.</p> <p>A relatively short examination (2 hours) tests the core understanding of basic</p>
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	web concepts and tools under controlled conditions.	
Identify final assessment component and element	A1	
% weighting between components A and B (Standard modules only)	A:	B:
	25	75
First Sit		
Component A (controlled conditions) Description of each element	Element weighting (as % of component)	
1. Examination (2 hours)	100	
Component B Description of each element	Element weighting (as % of component)	
1. Continual assessment by means of group and individual written reports which reflect on the tasks developed during the module.	80	
2. Group presentation/demonstration event of the artefact produced during the module.	20	
Resit (further attendance at taught classes is not required)		
Component A (controlled conditions) Description of each element	Element weighting (as % of component)	
1. Examination (2 hours)	100	
Component B Description of each element	Element weighting (as % of component)	
1. Individual written report into the processes undertaken during the module and the product developed.	100	
If a student is permitted an EXCEPTIONAL RETAKE of the module the assessment will be that indicated by the Module Description at the time that retake commences.		