MONASH University
Information Technology

FIT1011
Web systems 1

Unit Guide

Semester 1, 2010

Last updated: 13 Feb 2010

Table of Contents

FIT1011 Web systems 1 - Semester 1, 2010

Chief Examiner:

Dr Des Casey
Course Director BITS
Room 73, Building H7, Caulfield
Phone: +61 3 990 31081
Fax: +61 3 990 31077

Lecturer(s) / Leader(s):

Berwick

Dr Des Casey
Course Director BITS
Room 73, Building H7, Caulfield
Phone: +61 3 990 31081
Fax: +61 3 990 31077

Caulfield

Dr Des Casey
Course Director BITS
Room 73, Building H7, Caulfield
Phone: +61 3 990 31081
Fax: +61 3 990 31077

Clayton

Dr Des Casey
Course Director BITS
Room 73, Building H7, Caulfield
Phone: +61 3 990 31081
Fax: +61 3 990 31077

Gippsland

Dr Des Casey
Course Director BITS
Room 73, Building H7, Caulfield
Phone: +61 3 990 31081
Fax: +61 3 990 31077

South Africa

Gregory Gregoriou

Malaysia

Dr Saadat Alhashmi

Introduction

Welcome to FIT1011 Web systems 1. This unit is offered in the ONLINE DAY mode, which means students study the unit online. However, face to face helpdesk sessions and online help are provided for students to get help with their work.

Unit synopsis

Brief introduction to the physical structure of the Internet. W3C and its role. Document markup. Hypertext. Elements of web pages: text, graphics, media. Design with and implementation of: lists, tables, frames, layers, cascading style sheets. Web graphics: vector and bitmap images, image constraints, digitising images, basic graphic design. Plug-ins. Multimedia. Web page design principles. Elements of visual design. Form design and implementation. Site development life cycle. Legal and ethical considerations. Introduction to ASP.Net Introduction to Wireless.WAP 2.0 and XHTML-MP. WAP CSS / WCSS.WCSS properties. WCSS Extensions

Learning outcomes

At the completion of this unit students will have -
A knowledge and understanding of:

- the physical structure of the Internet;
- the role of mark-up languages, especially XHTML;
- the features of XHTML;
- the use of graphics and multimedia in web applications;
- the basic principles of web site design, implementation and maintenance;
- some of the legal and ethical issues associated with the Internet, especially the area of copyright.

Developed attitudes that enable them to:

- build professionalism towards respecting copyright;
- require professional standards in designing and implementing web applications.

Developed the skills to:

- write syntactically correct XHTML code;
- develop graphics suitable for web use;
- develop scripted streaming multimedia presentations;
- develop structurally correct web sites with intuitive navigational paradigms.

Contact hours

Students, are expected to spend an average of 12 hrs/week on this unit. The breakdown of time is as follows. 2 hrs/week: topic material coverage from the u-learning environment. 2 hrs/week working on sub-tasks and quizzes. 8 hrs/week: private study to review topic materials, explore supplementary unit resources and complete main tasks.

Workload

This unit is taught in ONLINE DAY flexible mode using the Walkabout u-Learning environment. Students will need to spend 12 hours per week working on the unit. On-campus and on-line help sessions are provided.

Unit relationships

Prohibitions

CPE1003, CPE9005, GCO1821, IMS1401

Teaching and learning method

Teaching approach

This unit is offered in ONLINE flexible mode. Students learn from the purpose designed website which contains learning materials including audio lectures, tasks and sub-tasks, quizzes, personal note taking facilities. There are also on-campus helpdesk sessions and online real time help available.

Task based learning is used: students have only one deadline: the end of the semester, by which time they need to have completed a series of relatively small tasks. Tasks are corrected progressively as they are submitted, and feedback provided to students.

The content is not presented as weekly topics, but as a specific task, and then associated learning materials that need to be mastered in order to complete the task.

There are also learning quizzes and sub-tasks to help progress to each major task.

Timetable information

For information on timetabling for on-campus classes please refer to MUTTS, http://mutts.monash.edu.au/MUTTS/

Tutorial allocation

On-campus students should register for tutorials/laboratories using the Allocate+ system: http://allocate.cc.monash.edu.au/

Off-Campus Learning or flexible delivery

Unit is taught in ONLINE flexible mode.

Unit Schedule

Week	Topic	Key dates
1	Introduction to networks. Internet and World Wide Web structure. Servers and browsers. Navigating the web. Information retrieval. Mark up language.Structure of an HTML document. Text formatting.Ordered and unordered lists.	n/a
2	Links to other documents. Links to other parts of a document. Other types of links.	n/a
3	Elements of tables. Alignment. Table and cell size. Row and column spanning. Nested tables. Applications for tables.	n/a
4	Style sheets. Basic syntax. Properties for backgrounds and boxes. Properties for lists and text. Inheritance. Contextual selectors. Classes and IDs. Web page layout with styles. Printing with style sheets. Introduction to graphic design. Working with color. Typography. Visual elements. Laying out a page	n/a
5	Web pages and graphics. Internet image formats. Working with images. Clickable images and image maps. Other graphics formats. Sourcing	n/a

	images. Creating vector graphics and bitmap images. Animated GIFs	
Mid semester break		
6	Concept of frames. Use of the frameset tags. Use of the frame tag. Targeted frames. Designing pages for multiple screen resolutions	n/a
7	Forms: elements, formatting and design. Processing forms. An introduction to Javascript. An introduction to Java applets	n/a
8	Serving static and dynamic web pages. Web based applications. Developing a simple page. reading data into a web page. Updating a database. Using master pages. Automatic linking. Case study: Butternut Books	n/a
9	Introduction to Wireless. WAP 2.0 and XHTML-MP. Syntax of XHTML-MP. WAP CSS/WCSS. Accomodating user agents	n/a
10	EXTENSION MATERIAL. Some general features of web page writing. Some categories of web pages. Common conventions	n/a
11	EXTENSION MATERIAL: Site aims, functionality, audience and resources. Site design, documentation and navigation. Copy, images, color schemes and fonts. Project implementation	n/a
12	EXTENSION MATERIAL: Organisational framework. Grouping content and activities. using hierarchies. Case study. User tasks. Page types. The design specification	n/a
13	Revision.	n/a

Improvements to this unit

At the end of each semester, students are asked to complete an online questionnaire about how they found working in an online mode. Feedback from this questionnaire is used to make improvements to the Walkabout learning method and the physical system itself

Unit Resources

Prescribed text(s) and readings

None

Recommended text(s) and readings

Castro, Elizabeth. *HTML for the World Wide Web with XHTML and CSS*, Peachpit Press; Berkeley CA, 5 edition, 2003

Required software and/or hardware

The following software can be downloaded from the unit web site. This software is also available in designated laboratories

Firefox. Browser

Microsoft Internet Explorer Version 6.0 or later. Browser for viewing web pages.

40tude HTML Editor

Top Style Lite Editor

Install Zip.

WS-ftp.

Openwave Phone Emulator (Version 7.0).

Visual Web Developer 2008

Software may be:

- downloaded from http://walkabout.netcomp.monash.edu.au
- purchased at academic price at good software retailers

Equipment and consumables required or provided

On-campus students, and those studying at supported study locations may use the facilities available in the computing labs. Information about computer use for students is available from the ITS Student Resource Guide in the Monash University Handbook.

Study resources

Study resources we will provide for your study are:

The FIT1011 website, http://walkabout.infotech.monash.edu.au/walkabout/FIT1011 where learning materials, audio lectures, quizzes and sub-tasks, task specifications, sample exam and supplementary materials are posted. Details of how to study the unit using the Walkabout environment are also provided.

Assessment

Overview

Examination (3 hours): 50%; In-semester assessment: 50%
Students must gain a satisfactory result in both the practical and exercises work and the exam to gain a pass in the unit. The examination must be sat at a Monash campus.

Faculty assessment policy

To pass a unit which includes an examination as part of the assessment a student must obtain:

- 40% or more in the unit's examination, and
- 40% or more in the unit's total non-examination assessment, and
- an overall unit mark of 50% or more.

If a student does not achieve 40% or more in the unit examination or the unit non-examination total assessment, and the total mark for the unit is greater than 50% then a mark of no greater than 49-N will be recorded for the unit.

.

Assignment tasks

Assignment coversheets

Assignment coversheets are available via "Student Forms" on the Faculty website:
http://www.infotech.monash.edu.au/resources/student/forms/
You MUST submit a completed coversheet with all assignments, ensuring that the plagiarism declaration section is signed.

Assignment submission and return procedures, and assessment criteria will be specified with each assignment.

- **Assignment task 1**

  Title:
  Unit tasks
  Description:
  This unit uses task based learning. Students complete 9 tasks in the course of the unit. These tasks take the place of the conventional assignments.

  Each task typically requires the student to complete or modify a small web application, and publish it to the web.
  Weighting:
  42%
  Due date:
  End of semester
  Remarks:
  This unit gives students flexibility with their time. Students may submit tasks at any time throughout the smester. Tasks are corrected at a number of published task correction points. Students gain tak feedback though correction sheets and at on campus or online

help sessions

- **Assignment task 2**

Title:
Quizzes
Description:
Students complete 8 timed online quizzes during the semester, each of 10 questions. Quizzes test the material learned in nine of the taks.
Weighting:
8%
Due date:
Students complete before end of semester
Remarks:
Like the tasks themselves, the attached quizzes may be taken at any time throughout the semester. These are computer corrected and results given to students as they finish the quiz

Examination

- **Weighting:** 50%
  Length: 3 hours
  Type (open/closed book): closed book

See Appendix for End of semester special consideration / deferred exams process.

Due dates and extensions

Please make every effort to submit work by the due dates. It is your responsibility to structure your study program around assignment deadlines, family, work and other commitments. Factors such as normal work pressures, vacations, etc. are not regarded as appropriate reasons for granting extensions. Students are advised to NOT assume that granting of an extension is a matter of course.

Students requesting an extension for any assessment during semester (eg. Assignments, tests or presentations) are required to submit a Special Consideration application form (in-semester exam/assessment task), along with original copies of supporting documentation, directly to their lecturer within two working days before the assessment submission deadline. Lecturers will provide specific outcomes directly to students via email within 2 working days. The lecturer reserves the right to refuse late applications.

A copy of the email or other written communication of an extension must be attached to the assignment submission.

Refer to the Faculty Special consideration webpage or further details and to access application forms: http://www.infotech.monash.edu.au/resources/student/equity/special-consideration.html

Late assignment

Late submission of tasks are not accepted for correction, and zero marks are awarded accordingly. The only exception to this is in the case of illness or other serious cause. In any such cases, proper third party documentation (e.g. a doctor's certificate) would have to be supplied. Where a doctor's certificate is supplied, then an extension may be allowed for time specified on the doctor's certificate.

Return dates

Students can expect assignments to be returned within two weeks of the submission date or after receipt, whichever is later.

Appendix

Please visit the following URL: http://www.infotech.monash.edu.au/units/appendix.html for further information about:

- Continuous improvement
- Unit evaluations
- Communication, participation and feedback
- Library access
- Monash University Studies Online (MUSO)
- Plagiarism, cheating and collusion
- Register of counselling about plagiarism
- Non-discriminatory language
- Students with disability
- End of semester special consideration / deferred exams