



**MONASH** University  
Information Technology

**FIT2028**  
**Web systems 2**

**Unit Guide**

**Semester 2, 2010**

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

*Last updated: 14 Jul 2010*

# Table of Contents

<u>FIT2028 Web systems 2 - Semester 2, 2010</u> .....	1
<u>Chief Examiner:</u> .....	1
<u>Lecturer(s) / Leader(s):</u> .....	1
<u>Caulfield</u> .....	1
<u>South Africa</u> .....	1
<u>Malaysia</u> .....	1
<u>Introduction</u> .....	2
<u>Unit synopsis</u> .....	2
<u>Learning outcomes</u> .....	2
<u>Contact hours</u> .....	2
<u>Further unit information</u> .....	2
<u>Workload</u> .....	3
<u>Unit relationships</u> .....	3
<u>Prerequisites</u> .....	3
<u>Prohibitions</u> .....	3
<u>Teaching and learning method</u> .....	4
<u>Teaching approach</u> .....	4
<u>Timetable information</u> .....	4
<u>Tutorial allocation</u> .....	4
<u>Off-Campus Learning or flexible delivery</u> .....	4
<u>Unit Schedule</u> .....	4
<u>Improvements to this unit</u> .....	5
<u>Unit Resources</u> .....	6
<u>Prescribed text(s) and readings</u> .....	6
<u>Recommended text(s) and readings</u> .....	6
<u>Required software and/or hardware</u> .....	6
<u>Equipment and consumables required or provided</u> .....	6
<u>Study resources</u> .....	6
<u>Assessment</u> .....	7
<u>Overview</u> .....	7
<u>Faculty assessment policy</u> .....	7
<u>Assignment tasks</u> .....	7
<u>Examination</u> .....	8
<u>Due dates and extensions</u> .....	8
<u>Late assignment</u> .....	9
<u>Return dates</u> .....	9
<u>Feedback</u> .....	9
<u>Appendix</u> .....	10

# **FIT2028 Web systems 2 - Semester 2, 2010**

## **Chief Examiner:**

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## **Lecturer(s) / Leader(s):**

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Contact hours: Tuesday: 09:00 - 12:00 H7.77

### **South Africa**

#### **Mr Gregory Gregoriou**

Contact hours: Wednesday: 13H30 - 15H30 Building D, Room: D.04

### **Malaysia**

**Dr. Saadat M. Alhashmi**

## Introduction

Welcome to FIT2028 for Semester 2, 2010. This 6 point unit has been designed to provide you with an in-depth knowledge of PHP. The unit explores the concepts and uses of server side scripting in developing dynamic web site and explores the use of open source frameworks in developing PHP based web sites.

## Unit synopsis

The unit covers server-side scripting: PHP structure, syntax and implementation. PHP scripting techniques for building dynamic web page interfaces for accessing server-side data stores. Implementing state-handling in a stateless environment. Strategies for enforcing data integrity, data security principles and techniques. Database and web page design concepts and their importance in commercial applications. Asynchronous Javascript and XML (Ajax). Client-side scripting: scripting language structure and syntax, scripting events and event handlers, creating objects and using built-in objects, objects and navigation, browser objects.

## Learning outcomes

At the completion of this unit students will have -

A knowledge and understanding of:

- two current scripting technologies, (one server-side, one client-side) performing a variety of Internet based functions, including access to data stores;
- an approach to web based security using these technologies; and
- utilisation of asynchronous technologies in Internet applications.

Developed the skills to:

- develop server side applications to perform a variety of Internet based tasks, including access to data stores, security methods, and asynchronous technologies.

Developed attitudes that enable them to:

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

## Contact hours

This unit is conducted through the Walkabout u-Learning Environment. Students self manage their learning with the help of the Walkabout environment. On campus drop in help sessions, and evening on line help sessions using the Marratech system are available for students to obtain timely assistance. A combination of pre-recorded lectures and face to face lectures are provided as required to supplement the online learning materials.

## Further unit information

Students enrolled at Caulfield will be able to attend a 2 hour lecture and 2 hour tutorial each week

Students enrolled in Malaysia will be able to attend lectures and help sessions.

Students enrolled in South Africa will be able to attend help sessions.

## **Workload**

For on campus students, workload commitment are:

- two hour lecture
- two hour tutorial
- 2 hours of personal study per one hour of contact time in order to satisfy the assignment expectations

## **Unit relationships**

### **Prerequisites**

FIT1002 or CSE1202

Basic HTML, basic XML, some programming in Java, C, C# or C++

### **Prohibitions**

CPE3003, CSE2030, CPE2010, FIT2029

## Teaching and learning method

### Teaching approach

This unit will be delivered via one 2 hour lectures and one 2 hour tutorial per week.

Lectures will introduce theoretical concepts and demonstrate and explain specific examples.

Tutorials will be devoted to giving students hands on experience in implementing a programming solution to a practical problem

Of campus students will use the Walkabout Learning Environment for access to content, assignment specifications, exercises and quizzes. Off campus students will also have access to 2 online help sessions per week through the use of Marratech.

### 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.its.monash.edu.au/>

### Off-Campus Learning or flexible delivery

<http://walkabout.infotech.monash.edu.au/walkabout/FIT2028>

### Unit Schedule

Week	Date*	Topic	Key dates
1	19/07/10	History of PHP, software installation, PHP syntax, IIS Virtual Directories	
2	26/07/10	Installation of Oracle and SQL Developer software. Using datastores with PHP - accessing Oracle, ODBC, MySQL	
3	02/08/10	Use of HTML forms. Executing SQL inserts, updates and deletes with PHP. Cleaning SQL statements	
4	09/08/10	Drop-down lists, multiple check boxes, client side integrity using JavaScript.	Assignment 1 due Friday @ 11:59pm
5	16/08/10	Cookies, Sessions, LDAP	
6	23/08/10	Creating XML and PDF documents using PHP.	
7	30/08/10	File uploads, accessing web server file system. Sending email via PHP	
8	06/09/10	PHP: Consuming, building and deploying Web Services	Assignment 2 due Friday @ 11:59pm
9	13/09/10	AJAX defined. Using AJAX with PHP. Using AJAX with PHP and datastores	

10	20/09/10	Using Zend Framework	
Mid semester break			
11	04/10/10	Using Zend Framework	
12	11/10/10	Using CakePHP Framework	Assignment 2 due Friday @ 11:59pm
13	18/10/10	Revision	

\*Please note that these dates may only apply to Australian campuses of Monash University. Off-shore students need to check the dates with their unit leader.

## Improvements to this unit

- This unit has previously run in Flexible mode, with no on campus lectures and tutorials. In semester 2, 2008 there will be weekly 2 hour lectures and 2 hour tutorials
- in response to student requests a Discussion Forum has been formed for the unit in order to encourage the exchange of ideas amongst students and staff

## Unit Resources

### Prescribed text(s) and readings

No texts are required

### Recommended text(s) and readings

### Required software and/or hardware

Internet Explorer,

Mozilla Firefox,

WS-FTP

PHP V5.3

Oracle Client or Oracle 10g Express Edition

Oracle SQL Developer

Web Server Software

All required software is installed in the Caulfield computing labs. Additionally software may be:

- downloaded from <http://walkabout.infotech.monash.edu.au/walkabout/fit2028/>
- downloaded from web sites as detailed in lecture material
- purchased at academic price at good software retailers

### Equipment and consumables required or provided

Students 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. You will need to allocate up to 8 hours per week for use of a computer.

### Study resources

Study resources we will provide for your study are:

The FIT2028 website, <http://walkabout.infotech.monash.edu.au/walkabout/FIT2028> where lecture slides, tutorial exercises, assignment specifications, sample exam and supplementary material is posted.



## Assessment

### Overview

Examination (3 hours): 60%; In-semester assessment: 40%  
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 submission and preparation requirements will be detailed in each assignment specification. Submission must be made by the due date otherwise penalties will be enforced. You must negotiate any extensions formally with your campus unit leader via the in-semester special consideration process: <http://www.infotech.monash.edu.au/resources/student/equity/special-consideration.html>.

#### • Assignment task 1

**Title:**

PHP Assignment

**Description:**

- ◆ Web site must provide PHP documents which fulfil the requirements specified in the provided Excel file, which can be downloaded from the assignment specification page

**Weighting:**

10%

**Criteria for assessment:**

**Due date:**

13/8/2010

• **Assignment task 2**

**Title:**

PHP Assignment

**Description:**

Web site must provide PHP documents which fulfil the requirements specified in the provided Excel file, which can be downloaded from the assignment specification page

**Weighting:**

15%

**Criteria for assessment:**

**Due date:**

10/9/2010

• **Assignment task 3**

**Title:**

PHP Assignment

**Description:**

- ◆ Web site must provide login via Monash University Directory Services
- ◆ Web site must provide PHP documents which fulfil the requirements specified in the provided Excel file, which can be downloaded from the assignment specification page

**Weighting:**

15%

**Criteria for assessment:**

**Due date:**

15/10/2010

## Examination

•

**Weighting:**

60%

**Length:**

3 hours

**Type (open/closed book):**

Closed book

**Electronic devices allowed in the exam:**

None

**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 assignments 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.

## **Feedback**

Types of feedback you can expect to receive in this unit are:

Informal feedback on progress in labs/tutes

Graded assignments without comments

## 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