# Table of Contents

**FIT5042 Enterprise application development for the web - Semester 2, 2010**

- Chief Examiner: ............................................................................................................................... 1
- Lecturer(s) / Leader(s): .................................................................................................................... 1
  - Caulfield ....................................................................................................................................... 1

## Introduction ........................................................................................................................................ 2

## Unit synopsis ................................................................................................................................... 2

## Learning outcomes .......................................................................................................................... 2

## Contact hours .................................................................................................................................. 2

## Workload ........................................................................................................................................ 2

## Unit relationships ............................................................................................................................. 2

### Prerequisites ................................................................................................................................. 2

### Prohibitions .................................................................................................................................. 3

## Teaching and learning method ......................................................................................................... 4

### Teaching approach ....................................................................................................................... 4

### Timetable information .................................................................................................................. 4

### Tutorial allocation ....................................................................................................................... 4

### Unit Schedule ............................................................................................................................... 4

## Unit Resources ................................................................................................................................ 5

### Prescribed text(s) and readings ................................................................................................... 5

### Recommended text(s) and readings ............................................................................................. 5

### Required software and/or hardware ............................................................................................ 5

### Equipment and consumables required or provided ....................................................................... 5

### Study resources ............................................................................................................................ 6

## Assessment ....................................................................................................................................... 7

### Overview ...................................................................................................................................... 7

### Faculty assessment policy ......................................................................................................... 7

### Assignment tasks .......................................................................................................................... 7

### Due dates and extensions ............................................................................................................. 9

### Late assignment ........................................................................................................................... 9

### Return dates ................................................................................................................................ 9

### Feedback ..................................................................................................................................... 9

## Appendix ......................................................................................................................................... 11
FIT5042 Enterprise application development for the web -
Semester 2, 2010

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Contact hours: To be advised
Introduction

Welcome to FIT5042 Enterprise application development for the web for semester 2, 2010. The unit has been designed to provide you with an understanding of developing web application for the enterprise using the Java programming language.

The unit is an on-campus unit and as such is structured, taught and assessed on the assumption that ALL students who choose to enrol can, and will, attend ALL classes. Assessment tasks for the unit require attendance at classes for completion. No alternative arrangements will be allowed.

Unit synopsis

This unit provides students with an understanding of the design and development of systems that support the large enterprise in a web-based environment. Students will learn of the theoretical issues that need to be considered by the enterprise and how they can affect the development of the enterprise application. A number of techniques will be introduced as the technological means to build such an application with specific emphasis on the Java EE technology.

Learning outcomes

At the completion of this unit students will:

- understand various issues pertaining to enterprise software architecture on the web;
- acquire techniques to develop enterprise applications using the Java programming language;
- discover various advanced Java technologies used to build web applications for the enterprise;
- learn to competently use the advanced Java libraries to build a medium-size web application for the enterprise.

Contact hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

- two-hour lecture and
- two-hour tutorial (or laboratory)
- a minimum of 2-3 hours of personal study per one hour of contact time inorder to satisfy the reading and assignment expectations.
- You will need to allocate up to 5 hours per week in some weeks, for use of a computer, including time for newsgroups/discussion groups.

Unit relationships

Prerequisites

Recommended knowledge: Students undertaking this subject are expected to have a sound understanding of the concepts of the object oriented programming language, Java.
Prohibitions

CSE5060
Teaching and learning method

Teaching approach

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/

Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date*</th>
<th>Topic</th>
<th>Key dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>19/07/10</td>
<td>Introduction, Java Revision, GUI</td>
<td>Please Note: This schedule of Topics and Assessment Tasks is subject to change during semester.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tutorials commence in Week 1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>26/07/10</td>
<td>Network Programming</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>02/08/10</td>
<td>Database programming and JDBC</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>09/08/10</td>
<td>Client-side Java</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>16/08/10</td>
<td>Enterprise Computing, Introduction to Java EE</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>23/08/10</td>
<td>Persistence</td>
<td>Assignment 1 due</td>
</tr>
<tr>
<td>7</td>
<td>30/08/10</td>
<td>Unit Test 1</td>
<td>Unit test 1 during lecture time</td>
</tr>
<tr>
<td>8</td>
<td>06/09/10</td>
<td>Web Tier 1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>13/09/10</td>
<td>Web Tier 2</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>20/09/10</td>
<td>Session Beans</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Mid semester break</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>04/10/10</td>
<td>Message Driven Beans, JMS</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>11/10/10</td>
<td>Open Source Alternatives</td>
<td>Assignment 2 due</td>
</tr>
<tr>
<td>13</td>
<td>18/10/10</td>
<td>Unit Test 2</td>
<td>Unit Test 2 during lecture time</td>
</tr>
</tbody>
</table>

*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.
Unit Resources

Prescribed text(s) and readings

none

Recommended text(s) and readings


Others:


Required software and/or hardware

You will need access to:

- Java SE 6
- NetBeans IDE with Java EE support and Glassfish application server

Software may be downloaded from:

- http://java.sun.com
- http://www.netbeans.org/

Hardware Requirements:

- A PC with Windows OS installed

Equipment and consumables required or provided

On-campus 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 5 hours per week for use of a computer
Study resources

Study resources we will provide for your study are:

- Weekly detailed lecture notes outlining the learning objectives, required readings and exercises;
- Weekly tutorial or laboratory tasks;
- Assignment specifications;
- This Unit Guide outlining the administrative information for the unit;
- The unit web site on MUSO, where resources outlined above will be made available.
Assessment

Overview

Assignments: 100%

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:  Assignments 1
  Description: This is a written research assignment which requires you to investigate and report on issues in developing enterprise applications. More details will be made available in the assignment specification.
  Weighting: 30%
  Criteria for assessment: This is an individual assignment and is to be entirely your own work.
  Submission will be to both Moodle AND Damocles - a plagiarism detection facility. Any student who does not submit to both Moodle AND Damocles will receive a mark of zero for the assignment.
You may be interviewed by your tutor and/or the lecturer on your submitted assignment. Marks will not be awarded for any section of the submitted assignment that a student cannot explain satisfactorily. Any student who is requested to attend an interview for this assignment, but who does not attend the interview on request, will receive a mark of zero for the assignment.

Further detailed assessment criteria will be available with the assignment specification.

**Due date:**
Week 6 - time and date to be advised in the assignment specification.

### Assignment task 2

**Title:**
Unit Test 1

**Description:**
A written test on the coding, principles and technologies introduced in the early to mid part of the semester.

**Weighting:**
17.5%

**Criteria for assessment:**

**Due date:**
Week 7 - Unit test 1 will be conducted in the lecture theatre, during the normal lecture time, in Week 7. No alternative arrangements will be allowed.

### Assignment task 3

**Title:**
Assignment 2

**Description:**
This assignment involves the development of a non-trivial web-based enterprise system employing the technologies presented in this unit up to Week 11 of semester.

**Weighting:**
35%

**Criteria for assessment:**
This is an individual assignment and is to be entirely your own work.

Assessment for this assignment is by interview. You will be asked to demonstrate your system at an interview in the week following the submission date. At the interview you can also expect to be asked to explain your system, your code, your design, discuss design decisions and alternatives and modify your code/system as required. Marks will not be awarded for any section of code or functionality that a student cannot explain satisfactorily. (The marker may delete excessive comments in code before a student is asked to explain that code).

Interview times will be arranged in the tutorial labs immediately preceding the submission deadline. **It is your responsibility to attend the lab and obtain an interview time. Students who do not attend an interview will receive 0 marks for the assignment.**

Further detailed assessment criteria will be available with the assignment specification.

**Due date:**
Week 12 - time and date to be advised in assignment specification.
• Assignment task 4

Title:

Unit Test 2

Description:

A written test on the coding, principles and technologies introduced in the mid to later part of the semester.

Weighting:

17.5%

Criteria for assessment:

Due date:

Week 13 - Unit test 2 will be conducted in the lecture theatre, during the normal lecture time, in Week 13. No alternative arrangements will be allowed.

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

Assignments received after the due date will be subject to a penalty of 10% of available mark per day, including weekends. Assignments received later than 7 days after the due date will not normally be accepted. In some cases, this period may be shorter if there is a need to release sample solutions.

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 with comments
FIT5042 Enterprise application development for the web - Semester 2, 2010

Interviews

Test results and feedback
Appendix

Please visit the following URL: [http://www.infotech.monash.edu.au/units/appendix.html](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