# Table of Contents

**FIT5032 Internet applications development - Semester 2, 2015**

- Mode of Delivery .........................................................................................................................1
- Workload Requirements ..................................................................................................................1
- Unit Relationships ..........................................................................................................................1
  - Prohibitions .................................................................................................................................1
  - Prerequisites .................................................................................................................................1
- Chief Examiner .............................................................................................................................2
- Campus Lecturer ............................................................................................................................2
  - Caulfield ......................................................................................................................................2
- Tutors ...............................................................................................................................................2
  - Caulfield ......................................................................................................................................2
- Your feedback to Us ........................................................................................................................2
- Previous Student Evaluations of this Unit .....................................................................................3

## Academic Overview

- Learning Outcomes ......................................................................................................................4

## Unit Schedule

- Teaching Approach .......................................................................................................................5
- Assessment Summary ....................................................................................................................5

## Assessment Requirements

- Assessment Policy .......................................................................................................................7
- Assessment Tasks ...........................................................................................................................7
- Participation ....................................................................................................................................7
- Examinations .................................................................................................................................8
  - Examination 1 ............................................................................................................................8
- Learning resources .........................................................................................................................8
- Feedback to you ..............................................................................................................................9
- Extensions and penalties ...............................................................................................................9
- Returning assignments ..................................................................................................................9
- Resubmission of assignments .......................................................................................................9
- Assignment submission ................................................................................................................9
- Online submission .........................................................................................................................9
- Additional subject costs ...............................................................................................................9

## Other Information

- Policies ........................................................................................................................................10
- Faculty resources and policies ......................................................................................................10
  - Graduate Attributes Policy .........................................................................................................10
- Student Charter .............................................................................................................................10
- Student services .............................................................................................................................10
- Monash University Library ..........................................................................................................10
- Disability Liaison Unit ..................................................................................................................10
FIT5032 Internet applications development - Semester 2, 2015

This unit provides students with the knowledge, understanding and skills required to develop an application system which uses a web interface to a back-end database. The unit assumes a sound basic knowledge of programming and database concepts and skills as developed in the introductory units in these areas. The emphasis in the unit is on mastery of the key concepts and the basic knowledge and skills required to build this kind of application. The unit will provide students with an awareness of the wide range of technologies which are used to support this kind of application, but will examine only a limited number of these technologies to demonstrate the key concepts and their application.

The unit will take a strongly practical focus in examining the technology issues involved, and highlight the key issues which a developer needs to address in developing applications of this kind for real-world systems.

Mode of Delivery

- Caulfield (Day)
- Caulfield (Online)

Workload Requirements

Minimum total expected workload equals 12 hours per week comprising:

(a.) Contact hours for on-campus students:

- Two hours of lectures
- One 2-hour laboratory

(b.) Additional requirements (all students):

- A minimum of 8 hours independent study per week for completing lab and project work, private study and revision.

See also Unit timetable information

Unit Relationships

Prohibitions

CPE5011, CPE4003

Prerequisites

Recommended knowledge: It is assumed that all students have a strong knowledge of Java programming.
Chief Examiner

Professor Chris Messom

Campus Lecturer

Caulfield

Chris Messom

Consultation hours: Thurs 1pm to 3pm

Tutors

Caulfield

Julian Li

Consultation hours: TBA

Prajwol Sangat

Consultation hours: TBA

Sneha Koduru

Consultation hours: TBA

Chu Nhat Linh

Consultation hours: TBA

Your feedback to Us

Monash is committed to excellence in education and regularly seeks feedback from students, employers and staff. One of the key formal ways students have to provide feedback is through the Student Evaluation of Teaching and Units (SETU) survey. The University’s student evaluation policy requires that every unit is evaluated each year. Students are strongly encouraged to complete the surveys. The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied and areas for improvement.

For more information on Monash’s educational strategy, see:

www.monash.edu.au/about/monash-directions/ and on student evaluations, see:
www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html
Previous Student Evaluations of this Unit

In response to the last SETU of this unit, the following changes have been made:

- More opportunities for student to participate in the unit have been added, including lecture based interactive quizzes.

Student feedback has highlighted the many strength(s) in this unit:

- The learning material enabled the student to achieve the unit's learning objectives
- The learning resources in the unit supported the student's studies
- The organisation and progression of the topics in this unit made sense to the student

If you wish to view how previous students rated this unit, please go to https://emuapps.monash.edu.au/unitevaluations/index.jsp
Academic Overview

Learning Outcomes

At the completion of this unit students should be able to

1. demonstrate the impact of the history of web applications development on current web-technology;
2. design, construct and publish web-database applications;
3. analyse and critique the key technological issues confronting developers building web-database applications;
4. test the key features of programming languages which are commonly used for developing web-database application;
5. assess the MVC design pattern and construct a web-database application using the MVC design pattern;
6. apply, analyse and critique a professional approach towards the development of web-database applications.
## Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No formal assessment or activities are undertaken in week 0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Web-database technologies, the historical development of dynamic web pages, the current state of play, web database interface processes. Introduction to/history of ASP.NET, software requirements, installation. Introduction to Visual Studio, creating a web site</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Internet applications planning and design. Database design. Web site design &amp; usability</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>HTML forms limitation, ASP.NET Server Controls Part 1, event driven programming and postback. ASP.NET Server Controls Part 2, Microsoft ASP.NET Online Documentation</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Introduction to C#, data types, operators and language constructs</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Master Pages, Skins and Themes</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>ASP.NET Server Controls Part 3, Validation, Navigation and Login controls</td>
<td>Assignment 1 due Friday week 6 at 2pm</td>
</tr>
<tr>
<td>7</td>
<td>Creating a simple MS Access database, ASP.NET Data Source controls - Access. Data controls, data source controls - user interaction</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Data source controls - manipulating data, GridView control - paging and sorting, GridView control - advanced sorting, customising the GridView control.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Sending email, accessing web server file system, Uploading, Reading, Creating, Copying, Deleting files. Introduction to ASP.NET MVC</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Introduction to ASP.NET MVC</td>
<td>Assignment 2 due Friday week 10 at 2pm</td>
</tr>
<tr>
<td>11</td>
<td>Creation of a simple web site using ASP.NET MVC</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>ASP.NET MVC extension material</td>
<td>Assignment 3 due Friday week 12 at 2pm</td>
</tr>
<tr>
<td></td>
<td>SWOT VAC</td>
<td>No formal assessment is undertaken in SWOT VAC</td>
</tr>
</tbody>
</table>

*Unit Schedule details will be maintained and communicated to you via your learning system.*
Teaching Approach

Lecture and tutorials or problem classes

This teaching and learning approach provides facilitated learning, practical exploration and peer learning.

Assessment Summary

Examination (2 hours): 50%; In-semester assessment: 50%

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1 - ASP.NET</td>
<td>10%</td>
<td>Friday week 6 at 2pm</td>
</tr>
<tr>
<td>Assignment 2 - ASP.NET</td>
<td>30%</td>
<td>Friday week 10 at 2pm</td>
</tr>
<tr>
<td>Assignment 3 - ASP.NET MVC</td>
<td>10%</td>
<td>Friday week 12 at 2pm</td>
</tr>
<tr>
<td>Examination 1</td>
<td>50%</td>
<td>To be advised</td>
</tr>
</tbody>
</table>
Assessment Requirements

Assessment Policy

Faculty Policy - Unit Assessment Hurdles

Academic Integrity - Please see resources and tutorials at
http://www.monash.edu/library/skills/resources/tutorials/academic-integrity/

Assessment Tasks

Participation

• Assessment task 1

Title: Assignment 1 - ASP.NET
Description: ASP.NET web site for a fictitious company.
Weighting: 10%
Criteria for assessment:

♦ The degree to which the submissions meet the specification requirements.
♦ The efficiency of the coding and the level of coding documentation.
♦ A distinction level submission should meet the requirements of a pass and credit submission and also be submitted with a high quality design document.

Detailed marking guide will be available on Moodle.

Due date: Friday week 6 at 2pm
Remarks: Assignment must be submitted to Moodle by due date and time.

• Assessment task 2

Title: Assignment 2 - ASP.NET
Description: ASP.NET web site for a fictitious company, which allows user registration login and searching.
Weighting: 30%
Criteria for assessment:

♦ The degree to which the submissions meet the specification requirements.
♦ The efficiency of the coding and the level of coding documentation.
♦ A distinction level submission should meet the requirements of a pass and credit submission and also be submitted with a high quality design document.
♦ A high distinction submission should meet the requirements of a distinction level submission and also be submitted with a high quality research report.
Assessment Requirements

Detailed marking guide will be available on Moodle.

**Due date:**
Friday week 10 at 2pm

**Remarks:**
Assignment must be submitted to Moodle by due date and time.

Interviews for the Distinction level Design reports will be held in week 11.

Interviews for the High Distinction Research Reports will be held in week 12.

• **Assessment task 3**

  **Title:**
  Assignment 3 - ASP.NET MVC

  **Description:**
  ASP.NET MVC web site for a fictitious company.

  **Weighting:**
  10%

  **Criteria for assessment:**

  ♦ The degree to which the submissions meet the specification requirements.
  ♦ The efficiency of the coding and the level of coding documentation.
  ♦ A distinction level submission should meet the requirements of a pass and credit submission and also be submitted with a high quality design document.

  Detailed marking guide will be available on Moodle.

  **Due date:**
  Friday week 12 at 2pm

  **Remarks:**
  Assignment must be submitted to Moodle by due date and time.

Examinations

• **Examination 1**

  **Weighting:**
  50%

  **Length:**
  3 hours

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

  **Electronic devices allowed in the exam:**
  None

Learning resources

Monash Library Unit Reading List (if applicable to the unit)
http://readinglists.lib.monash.edu/index.html
Feedback to you

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

- Informal feedback on progress in labs/tutes
- Graded assignments without comments
- Interviews

Extensions and penalties

Submission must be made by the due date otherwise penalties will be enforced.


Returning assignments

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

Resubmission of assignments

Resubmission of assignments is not allowed.

Assignment submission

It is a University requirement for students to submit an assignment coversheet for each assessment item. Faculty Assignment coversheets can be found at [http://www.infotech.monash.edu.au/resources/student/forms/](http://www.infotech.monash.edu.au/resources/student/forms/). Please check with your Lecturer on the submission method for your assignment coversheet (e.g. attach a file to the online assignment submission, hand-in a hard copy, or use an electronic submission). Please note that it is your responsibility to retain copies of your assessments.

Online submission

If Electronic Submission has been approved for your unit, please submit your work via the learning system for this unit, which you can access via links in the my.monash portal.

Additional subject costs

If the (ON-CAMPUS) student does not own a Turning Point lecture quiz clicker then they are advised to purchase one. These are available for sale in the Caulfield campus bookshop.
Other Information

Policies

Monash has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University’s academic standards, and to provide advice on how they might uphold them. You can find Monash’s Education Policies at: www.policy.monash.edu.au/policy-bank/academic/education/index.html

Faculty resources and policies

Important student resources including Faculty policies are located at http://intranet.monash.edu.au/infotech/resources/students/

Graduate Attributes Policy

http://www.policy.monash.edu/policy-bank/academic/education/management/monash-graduate-attributes-policy.html

Student Charter


Student services

The University provides many different kinds of support services for you. Contact your tutor if you need advice and see the range of services available at http://www.monash.edu.au/students. For Malaysia see http://www.monash.edu.my/Student-services, and for South Africa see http://www.monash.ac.za/current/.

Monash University Library

The Monash University Library provides a range of services, resources and programs that enable you to save time and be more effective in your learning and research. Go to www.lib.monash.edu.au or the library tab in my.monash portal for more information. At Malaysia, visit the Library and Learning Commons at http://www.lib.monash.edu.my/. At South Africa visit http://www.lib.monash.ac.za/.

Disability Liaison Unit

Students who have a disability or medical condition are welcome to contact the Disability Liaison Unit to discuss academic support services. Disability Liaison Officers (DLOs) visit all Victorian campuses on a regular basis.

- Website: http://www.monash.edu/equity-diversity/disability/index.html
- Telephone: 03 9905 5704 to book an appointment with a DLO; or contact the Student Advisor, Student Community Services at 03 55146018 at Malaysia
- Email: dlu@monash.edu
- Drop In: Equity and Diversity Centre, Level 1, Building 55, Clayton Campus, or Student Community Services Department, Level 2, Building 2, Monash University, Malaysia Campus