FIT5032 Internet applications development - Semester 2, 2014

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)

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.

Unit Relationships

Prohibitions

CPE5011, CPE4003

Prerequisites

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

Chief Examiner

Ms Janet Fraser
Campus Lecturer

Caulfield

Chris Messom

Consultation hours: Tue 10am to 1pm

Tutors

Caulfield

Julian Li

Consultation hours: Mon 4pm to 7pm

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

Based on previous student feedback this unit is considered to be well structured and no changes have been made for this semester.

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 will be able to:

• recall the history of web applications development;
• design, construct and publish web-database applications;
• understand and analyse the key technological issues confronting developers building web-database applications;
• understand the key features of programming languages which are commonly used for developing web-database application;
• describe the MVC design pattern and construct a web-database application using the MVC design pattern;
• apply a professional attitude 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>
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<tr>
<td>1</td>
<td>Web-database technologies, the historical development of dynamic web pages,</td>
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<tr>
<td></td>
<td>the current state of play, web database interface processes. Introduction</td>
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<tr>
<td></td>
<td>to/history of ASP.NET. software requirements, installation. Introduction</td>
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<tr>
<td></td>
<td>to Visual Studio, creating a web site</td>
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<tr>
<td>2</td>
<td>Internet applications planning and design. Database design. Web site</td>
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<tr>
<td></td>
<td>design &amp; usability</td>
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<tr>
<td>3</td>
<td>HTML forms limitation, ASP.NET Server Controls Part 1, event driven</td>
<td>Assignment 1 due Friday 5 September 2014 at 2pm</td>
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<tr>
<td></td>
<td>programming and postback. ASP.NET Server Controls Part 2, Microsoft ASP.NET Online Documentation</td>
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<tr>
<td>4</td>
<td>Introduction to C#, data types, operators and language constructs</td>
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<td>5</td>
<td>Master Pages, Skins and Themes</td>
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<tr>
<td>6</td>
<td>ASP.NET Server Controls Part 3, Validation, Navigation and Login controls</td>
<td>Assignment 2 due Friday 10 October 2014 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>
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<tr>
<td>8</td>
<td>Data source controls - manipulating data, GridView control - paging and sorting, GridView control - advanced sorting, customising the GridView control.</td>
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<tr>
<td>9</td>
<td>Sending email, accessing web server file system, Uploading, Reading,</td>
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<tr>
<td></td>
<td>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 3 due Friday 24 October 2014 at 2pm</td>
</tr>
<tr>
<td>11</td>
<td>Creation of a simple web site using ASP.NET MVC</td>
<td></td>
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<tr>
<td>12</td>
<td>ASP.NET MVC extension material</td>
<td>No formal assessment is undertaken in SWOT VAC</td>
</tr>
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<td></td>
<td>SWOT VAC</td>
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</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): 40%; In-semester assessment: 60%

<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>15%</td>
<td>Friday 5 September 2014 at 2pm</td>
</tr>
<tr>
<td>Assignment 2 - ASP.NET</td>
<td>25%</td>
<td>Friday 10 October 2014 at 2pm</td>
</tr>
<tr>
<td>Assignment 3 - ASP.NET MVC</td>
<td>20%</td>
<td>Friday 24 October 2014 at 2pm</td>
</tr>
<tr>
<td>Examination 1</td>
<td>40%</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: 15%
  Criteria for assessment:
  ♦ The degree to which the submissions meet the specification requirements.
  ♦ The efficiency of the coding and the level of coding documentation.

  Confirm with Lecturer about specific location of marking guide available at
  http://walkabout.infotech.monash.edu.au/walkabout/fit5032

  Due date: Friday 5 September 2014 at 2pm
  Remarks: Assignment must be submitted to student server 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: 25%
  Criteria for assessment:
  ♦ The degree to which the submissions meet the specification requirements.
  ♦ The efficiency of the coding and the level of coding documentation.

  Confirm with Lecturer about specific location of marking guide available at
  http://walkabout.infotech.monash.edu.au/walkabout/fit5032

  Due date: Friday 10 October 2014 at 2pm
Assessment Requirements

Remarks:
Assignment must be submitted to student server by due date and time.

• Assessment task 3

Title: Assignment 3 - ASP.NET MVC
Description: ASP.NET MVC web site for a fictitious company.
Weighting: 20%
Criteria for assessment:

♦ The degree to which the submissions meet the specification requirements.
♦ The efficiency of the coding and the level of coding documentation.

Confirm with Lecturer about specific location of marking guide available at http://walkabout.infotech.monash.edu.au/walkabout/fit5032

Due date: Friday 24 October 2014 at 2pm
Remarks: Assignment must be submitted to student server by due date and time.

Examinations

• Examination 1

Weighting: 40%
Length: 2 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
Faculty of Information Technology Style Guide

Feedback to you

Examination/other end-of-semester assessment feedback may take the form of feedback classes, provision of sample answers or other group feedback after official results have been published. Please check with your lecturer on the feedback provided and take advantage of this prior to requesting individual consultations with staff. If your unit has an examination, you may request to view your examination script booklet, see http://intranet.monash.edu.au/infotech/resources/students/procedures/request-to-view-exam-scripts.html
Types of feedback you can expect to receive in this unit are:

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

**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 online quiz). 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.
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

Key educational policies include:

- Student Academic Integrity Policy and Student Academic Integrity: Managing Plagiarism and Collusion Procedures; http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-academic-integrity-policy.html
- Special Consideration; http://www.policy.monash.edu/policy-bank/academic/education/assessment/special-consideration-policy.html
- Grading Scale; http://www.policy.monash.edu/policy-bank/academic/education/assessment/grading-scale-policy.html
- Discipline: Student Policy; http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-discipline-policy.html
- Academic Calendar and Semesters; http://www.monash.edu.au/students/dates/
- Orientation and Transition; http://intranet.monash.edu.au/infotech/resources/students/orientation/

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/.
Other Information

**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/](http://www.lib.monash.edu.my/). At South Africa visit [http://www.lib.monash.ac.za/](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.

- 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