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**FIT2029 Web programming - Semester 1, 2011**

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Introduction to the principles of commercial e-commerce programming tasks. The unit explores the purposes and approaches in using scripting and markup languages in relation to the client-server paradigm. The role of both server-side and client-side code are examined. The unit will also build upon students previous study of database systems. Students will study the use of markup and scripting programming languages to connect to databases via a network.

Mode of Delivery

- Gippsland (Day)
- Gippsland (Off-campus)
- Sunway (Day)
- South Africa (Day)

Contact Hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

For on campus students, workload commitments are:

* two-hour lecture and
* two-hour tutorial (or laboratory) (requiring advance preparation)
* a minimum of 2-3 hours of personal study per one hour of contact time in order 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.

Off-campus students generally do not attend lecture and tutorial sessions, however, you should plan to spend equivalent time working through the relevant resources and participating in discussion groups each week.

Unit Relationships

Prohibitions

BUS1042, CPE3002, CSE2030, FIT2028, FIT2076, GCO2811, MMS2802

Prerequisites

FIT1002 and FIT1004

Chief Examiner

Gour Karmakar
Learning Objectives

At the completion of this unit students will:

- have an understanding of the fundamental principles and breadth of commercial, e-business and e-commerce programming tasks;
- have experience in using their programming skills in a number of different environments such as Linux, Unix or Windows, while being aware that their fundamental programming approaches remain valid;
- have their understanding of and skills in top-down code development enhanced;
- have knowledge of mark-up languages and scripting languages, and skill in creating applications using these;
- understand the client-server paradigm;
- be able to develop and code solutions to typical web-based commercial programming problems using markup and scripting languages, in a client-server paradigm;
- further develop skills in creating suitable and thorough test harnesses;
- have a sound understanding of the fundamental principles of web service strategies.
- be aware of basic security issues when developing and hosting Internet-based applications.

Graduate Attributes

Monash prepares its graduates to be:

1. responsible and effective global citizens who:

   a. engage in an internationalised world
   b. exhibit cross-cultural competence
   c. demonstrate ethical values
critical and creative scholars who:

a. produce innovative solutions to problems
b. apply research skills to a range of challenges
c. communicate perceptively and effectively

Assessment Summary

Examination (3 hours): 60%; In-semester assessment: 40%

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA1 Putting it online</td>
<td>15%</td>
<td>14 April 2011</td>
</tr>
<tr>
<td>AA2 Advanced programming</td>
<td>25%</td>
<td>19 May 2011</td>
</tr>
<tr>
<td>Examination 1</td>
<td>60%</td>
<td>To be advised</td>
</tr>
</tbody>
</table>

Teaching Approach

Lecture and tutorials or problem classes

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

Feedback

Our feedback to You

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

• Graded assignments with comments
• Graded assignments without comments

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 SETU, Student Evaluation of Teacher and Unit. 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, and on student evaluations, see:
http://www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html

Previous Student Evaluations of this unit

If you wish to view how previous students rated this unit, please go to
Required Resources

Prescribed text(s) and readings


Text books are available from the Monash University Book Shops. Availability from other suppliers cannot be assured. The Bookshop orders texts in specifically for this unit. You are advised to purchase your text book early.

Recommended text(s) and readings


Required software and/or hardware

PHP 4.3.10 or later
MySQL 4.0.24 or later
Xitami Personal Webserver 2.4d11 or equivalent

(For Gippsland oncampus students, the above software will be available on GUS)

Mozilla Firefox
Netscape Navigator 8.0
Microsoft IE

All software is free and may be:

- downloaded from FIT2029 unit website (MUSO)
- or latest versions directly from web sources

Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date*</th>
<th>Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>21/02/11</td>
<td>No formal assessment or activities are undertaken in week 0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>28/02/11</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>07/03/11</td>
<td>HTML, CSS and Browser Compatibility</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>14/03/11</td>
<td>Client Side Programming</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>21/03/11</td>
<td>Further JavaScript and Events</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>28/03/11</td>
<td>Good Design</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>04/04/11</td>
<td>Server Side Scripting</td>
<td>Assessment Task 1: due 14 April 2011 (15%)</td>
</tr>
<tr>
<td>7</td>
<td>11/04/11</td>
<td>Server Side Scripting using PHP</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>18/04/11</td>
<td>Session Tracking</td>
<td></td>
</tr>
</tbody>
</table>

Mid semester break
**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.

**Assessment Tasks**

**Participation**

- **Assessment task 1**

  **Title:**
  AA1 Putting it online

  **Description:**
  This assignment will require printed material to be put online, the material should be re-organised into a web-friendly format applying the principles of good web design. The website will include Javascript navigation menus and some dynamic behaviour. Finally the student will write a short report explaining the design philosophy used on this project. This report should give the reader insight into the design choices you have made.

  **Weighting:**
  15%

  **Criteria for assessment:**
  Your website will be marked on features such as accessibility, useability and compatibility. Markers will also reward website designs that are simple to use and present the information clearly.

  More detail of tasks and marking criteria will be in the full assignment specification available from the units MUSO website.

  **Due date:**
  14 April 2011
Assessment task 2

Title:
AA2 Advanced programming

Description:
You are to write a web-based application using HTML and PHP code that accesses
database tables using SQL commands in MySQL. The application will validate authorised
users maintaining a session using cookies, unique session identification number with a
defined expiry time. Unauthorised users will have limited access to the information in
read-only mode.

All user input must be validated using regular expressions and other techniques, particular
attention must be given to protecting your scripts from cross-site scripting attacks.

Weighting:
25%

Criteria for assessment:
The assignments will be assessed with regard to the following criteria:

♦ Your scripts MUST be compatible with the system specified by your local Unit
  Advisor
♦ Validation of all input
♦ Simple and easy to use interface
♦ Consistency, easy navigation and good accessibility
♦ Good programming principles
♦ Successful completion of all tasks specified

More detail of tasks and marking criteria will be in the full specification available from the
units MUSO website

Due date:
19 May 2011

Examinations

• Examination 1

Weighting:
60%

Length:
3 hours

Type (open/closed book):
Closed book

Electronic devices allowed in the exam:
None

Assignment submission

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.
Extensions and penalties

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:

Returning assignments

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

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:

Key educational policies include:

- Plagiarism (http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-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/key-dates/)
- Orientation and Transition (http://www.infotech.monash.edu.au/resources/student/orientation/)

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 www.monash.edu.au/students The Monash University Library provides a range of services and resources that enable you to save time and be more effective in your learning and research. Go to http://www.lib.monash.edu.au or the library tab in my.monash portal for more information. 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://adm.monash.edu/sss/equity-diversity/disability-liaison/index.html
- Telephone: 03 9905 5704 to book an appointment with a DLO;
- Email: dlu@monash.edu
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- Drop In: Equity and Diversity Centre, Level 1 Gallery Building (Building 55), Monash University, Clayton Campus.

READING LIST

Recommended text(s) and readings