MONASH University
Information Technology

FIT2013
e-Business technologies

Unit Guide

Semester 1, 2010

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FIT2013 e-Business technologies - Semester 1, 2010

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Introduction

Welcome to FIT2013 e-Business Technologies for semester 1, 2010. This 6 point unit is core to the Bachelor of Business Information Systems degree in the Faculty of IT. The unit has been designed to familiarise you with current e-Business Technologies primarily through a pragmatic introduction to Web Application programming.

Unit synopsis

This unit, together with FIT3009, provides a top-to-bottom coverage of e-Business Systems. The emphasis in this unit is on the technologies used to implement e-Business Systems, ie. the low level of such systems. Although this unit is entirely suitable for a future developer of e-Business Systems, it is optimally targeted at future managers of such development. Thus practical exercises will be illustrative rather than industrial strength and technology issues will be given equal coverage with technology details. The primary aim of the unit is to familiarise students with as many of the currently popular e-Business technologies as possible so that their design and implementation decisions in the future will be informed and therefore produce successful systems with a high degree of probability.

Learning outcomes

At the completion of this unit students will have -

A knowledge and understanding of:

- client-side programming ((X)HTML, JavaScript, CSS, DHTML, DOM);
- server-side programming (ASP.NET, Ruby on Rails, JSF);
- basic XML technologies (XML, DTD, XPath, XSLT, XMLSchemas);
- web Servers (IIS, Apache);
- current, popular IDEs and programming technologies
- security (encryption, transport and document level, Digital Signatures, SSL, TSL, Access Control Standards);
- standards Bodies (IETF, W3C, OASIS, OAGIS etc);
- eBusiness formal and de jour Standards.

Developed attitudes that enable them to:

- have an appreciation that eBusiness Systems are better designed and managed by professionals with a sound knowledge of the technologies used to build these systems;
- have an appreciation that underlying technologies often directly impact the Business goals of an eBusiness System via constraints and opportunities presented by the technologies;
- have a belief that all existing technologies in back-end systems can be integrated by appropriate middleware;
- value the importance of choosing to use established technology standards where possible.

Developed the skills to:

- develop a small eBusiness system (B2B or B2C and IDE/implement the appropriate technology;
- create an appropriate Technical Architecture for a specified, non-trivial eBusiness solution;
- create XML documents, schemas for these documents, transforming and querying such documents using fundamental XML skills.

Demonstrated the communication skills necessary to:

- identify and communicate the technical opportunities and problems associated with a particular technical solution to a business solution;
- understand the relationship between Business and Technical analysts within an eBusiness System Development.

Contact hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

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.

Unit relationships

Prerequisites

FIT1002 or BUS1060 or CSE1301

Prohibitions

BUS1042

Teaching and learning method

Teaching approach

Teaching and learning method for this unit is through on campus lectures and tutorial sessions. During the lectures, students are introduced to concepts, principles, as well as exposed to examples. During the tutorial sessions, students have the opportunity to explore the concepts and reinforce their understanding by working on practical problems.

The order and content of the weekly topics listed in the **Unit Schedule** are both subject to change during semester. Certain topics listed may not be covered, the weeks listed for their coverage may change and/or other topics, not currently listed, may be introduced.

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

Week	Date*	Topic	Key dates
1	01/03/10	Admin + Introduction	
2	08/03/10	CSS	tute worth 4% (top 10 tutes count)
3	15/03/10	JavaScript	tute worth 4% (top 10 tutes count)
4	22/03/10	JavaScript	tute worth 4% (top 10 tutes count)
5	29/03/10	JavaScript	tute worth 4% (top 10 tutes count)
Mid semester break			
6	12/04/10	JavaScript/DOM	tute worth 4% (top 10 tutes count)
7	19/04/10	DOM	tute worth 4% (top 10 tutes count)
8	26/04/10	Servers, Ajax and XML	tute worth 4% (top 10 tutes count)
9	03/05/10	Ruby on Rails	tute worth 4% (top 10 tutes count)
10	10/05/10	Ruby on Rails	tute worth 4% (top 10 tutes count)
11	17/05/10	ASP.NET	tute worth 4% (top

			10 tutes count)
12	24/05/10	ASP.NET	tute worth 4% (top 10 tutes count)
13	31/05/10	Exam 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

Unit completely updated (2010).

New important additions include Ruby on Rails, MVC architecture, ASP.NET (3.5), Web 2.0

Although students often complain that the unit deals with too many technologies this is in the very nature of Web and therefore eBusiness technologies.

Students will be warned that there will be many technologies discussed but the expectation of what they need to know about each will also be clearly stated. This expectation will be comensurate with the norm for a second year unit.

Unit Resources

Prescribed text(s) and readings

Prescribed:

Internet & World Wide Web - How To Program By Deitel, Deitel Fourth Edition, Prentice Hall, ISBN: 0131752421, 2008.

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

www.w3c.org

VS.Net MSDN

Required software and/or hardware

Microsoft Visual Studio.Net 2008

Latest browser (eg. Mozilla or IE)

Microsoft IIS

Equipment and consumables required or provided

Students will need access to:

- a personal computer with Windows XP
- the internet via dial-up connection or preferably by broadband
- a printer for assignments

Students may require to configure the PC as server for assignment work.

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.

Study resources

Study resources we will provide for your study are:

Weekly lecture notes; Weekly tutorial tasks; Assignment specifications; This Unit Guide outlining the administrative information for the unit; The unit web site on MUSO (Moodle), where resources outlined above will be made available.

Assessment

Overview

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

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.

The unit is assessed with a class test, two assignments and a three hour closed book examination. To pass the unit you must:

- achieve no less that 50% of the possible marks in the exam; and
- achieve no less than 50% of possible marks

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 task 1**

  Title:
  Tutorials
  Description:
  Weighting:
  Each of 10 tutorials will be worth 4 marks for a total of 40% of your final mark for the unit
  Due date:
  Tutorial work will be marked in tutorials

Examination

- **Weighting:** 60%
  Length: 3 hours
  Type (open/closed book): Closed book

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

Assignments received after the due date will be subject to a penalty of 20% per day, including weekends. Assignments received later than one week after the due date will not be accepted.

This policy is strict because comments or guidance will be given on assignments as they are returned, and sample solutions may also be published and distributed, after assignment marking or with the returned assignment.

Return dates

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

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