MONASH University

FIT3047
Industrial experience project

Unit Guide

Semester 2, 2009

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

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Table of Contents

FIT3047 Industrial experience project - Semester 2, 2009

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Introduction

Welcome to FIT3047 - Industrial Experience Project - Part 1.. This 6 point unit is core in the Bachelor of Information Technology and Systems. This unit has been designed to give you the opportunity to apply the knowledge and skills you have gained throughout the degree in a real-world context.

Unit synopsis

In their final year of study, students are given the opportunity to apply the knowledge and skills they have gained, in the development of an information system for a real world client. Students work in groups and will: design, develop and deliver an information system for a client, manage the project through all its development stages, communicate effectively with all project stakeholders, primarily via studios and meetings, develop project documentation to a professional standard, present their project work to academics and other groups, attend unit seminars, contribute in a professional and committed manner to the work of the group

This is the first of two core industrial experience units for the Bachelor of Information Technology and Systems, Bachelor of Computing, Bachelor of Information Systems and Bachelor of Network Computing. After successful completion of this unit, students must enrol in and pass FIT3048 to complete their industrial experience project requirements and receive a final result.

Learning outcomes

This unit builds on knowledge and understanding developed in core units throughout first and second level studies. Students will:

1. understand all stages of the process of developing an information system;
2. understand the roles and responsibilities of clients, system users and developers in a systems development project;
3. understand how information systems are developed. This subject aims to develop in students:
4. the capacity to apply, in a practical setting, the theoretical work covered in their course.
5. the ability to develop a significant computing application, from the analysis and design stages, through coding and implementation to evaluation. On completion of this subject students should be able to:
6. work with clients and communicate effectively with them;
7. define a problem, and gather data, facts, opinions and information needed to analyse and solve it;
8. outline and evaluate alternative solutions to a system development problem;
9. perform a feasibility study that includes estimates of costs, time requirements, a schedule for the development, and the benefits expected from the system;
10. identify hardware and software requirements for a system;
11. document a system design using tools which include system flow charts and data flow diagrams;
12. implement a system, including testing and debugging;
13. evaluate a system, identifying any weakness or possible enhancements

Contact hours

Lecture/seminar: 1hr/week, studio: 3hrs/week, plus a project.

Workload

Your workload commitment to this unit are:

- 3 hour tutorial

- 1 hour seminar
- Half an hour or personal reflection which include: writing a blog about the weeks activities, keeping records of time spent on this unit and generally reflecting on what you have learned.
- Approximately 7 1/2 hours of additional work which may include the following: developing code, doing research about different aspects of systems development, development of documentation

Unit relationships

Prerequisites

FIT Undergraduate Common Core Units, FIT1001 and FIT1002 and FIT1003 and FIT1004 and FIT1005 and FIT2001 and FIT2002 and any 3 FIT 2nd year units. For Bachelor of Computing (2330) and associated double degree students only: CSE2132 or FIT1004 and CSE2203 or FIT2002. The student should also have completed at least 84 credit points towards their Bachelor of Computing or associated double degrees.For Bachelor of Information Systems (3323) and associated double degree students only: IMS2502 or equivalent.For Bachelor of Network Computing and associated double degree students only: FIT1002 or CPE1001 and FIT1001 or CPE1002 and FIT1011 or CPE1003 and FIT2034 or CPE1004 and FIT1003 or CPE1006 and FIT1005 or CPE1007 and CPE2006 or FIT2002 and 2 of FIT2001 or CPE2003 or FIT1004 or CPE2005 or FIT3031 or CPE2007.

Prohibitions

CSE3301, GCO2819, GCO3819, CSE3200, FIT3015, FIT3039, FIT3040, FIT3038, FIT3025, FIT3026, FIT3016, FIT3017 (Translation for CSE3200), FIT3114, FIT3115, FIT3116, FIT3117, IMS3000, IMS3501, IMS3502

Relationships

You may not study this unit and CSE3301, GCO2819, GCO3819, CSE3200, FIT3015, FIT3039, FIT3040, FIT3038, FIT3025, FIT3026, FIT3016, FIT3017 (Translation for CSE3200), FIT3114, FIT3115, FIT3116, FIT3117, IMS3000, IMS3501, IMS3502 in your degree.

Teaching and learning method

On-campus students: In this unit we try to simulate a real systems development experience. Groups of students work as a team with support from tutors and academic staff to develop a system for a real client. The seminars are developed to address specific issues during system development and we also include speakers from industry. The studio sessions are there for students to work on their project and to receive help from tutors and academic staff.

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.cc.monash.edu.au/

Off-Campus Learning or flexible delivery

Project teams consisting of Off-Campus Learning (OCL) students from similar areas will be formed. To facilitate better communication in such teams, a discussion group will be created in MUSO for each OCL project team. Using this discussion group, members in each OCL team is expected to discuss various issues related to its project. Each project team must also communicate regularly with its allocated supervisor to acquire guidance in the development of its project.

Unit Schedule

Week	Topic	Key dates
1	Campus specific seminars will be held	Students will be advised of campus specific delivery dates and deliverables.
2	Campus specific seminars will be held	
3	Campus specific seminars will be held	
4	Campus specific seminars will be held	
5	Campus specific seminars will be held	
6	Campus specific seminars will be held	
7	Campus specific seminars will be held	
8	Campus specific seminars will be held	
9	Campus specific seminars will be held	
10	Campus specific seminars will be held	
Mid semester break		
11	Campus specific seminars will be held	
12	Campus specific seminars will be held	
13	Campus specific seminars will be held	

Unit Resources

Prescribed text(s) and readings

There are no set texts, however students are expected to have developed their own collection of texts, urls and other reference materials during the course of their studies. Resources related to the seminar series will be distributed during the seminar or listed on the unit web site.

Recommended text(s) and readings

There are no recommended texts, however students are expected to have developed their own collection of texts, urls and other reference materials during the course of their studies.

Required software and/or hardware

The studio environment provides a large array of software and hardware for students to use within the studios, and some items are available for overnight loan. Please see the unit web site for up-to-date listing. Anything additional is to be negotiated between the student team and their clients. FIT will not normally provide additional hardware or software.

Equipment and consumables required or provided

Information about computer use for students is available from the ITS Student Resource Guide in the Monash University Handbook.

The Studio environment is well equipped with computers and peripherals. Studio computer peripherals (cameras, scanners, laptops, zip drives etc.) are available for student use. This equipment is accessible via the FIT loan system - ask the Caulfield FIT technical staff for more information, or log a request via their web site:

http://www1.infotech.monash.edu.au/webservices/servicedesk/requestform/index.cfm

Study resources

Study resources we will provide for your study are:

- Resource Guide

- Documentation Guide

- MUSO/Moodle Website (this web site contains information for FIT3015, FIT3047 and FIT3048)

Assessment

Overview

Individual diaries/timesheets, Project documents,
Group presentation/minutes, Peer Assessment, Delivered product, Examination

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 44% then a mark of no greater than 44-N will be recorded for the unit.

Detailed information about assessment, deliverables and due dates will be provided at each campus.

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% per day, assignments received later than one week after the due date will not normally be accepted.

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