

FIT3047
Industrial experience project

Unit Guide

Semester 2, 2010

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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FIT3047 Industrial experience project - Semester 2, 2010

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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

At the completion of this unit students will be able to:

- understand all stages of the process of developing an information system;
- understand the roles and responsibilities of clients, system users and developers in a systems development project;
- understand how information systems are developed;
- apply, in a practical setting, the theoretical work covered in their course;
- develop a significant computing application, from the analysis and design stages, through coding and implementation to evaluation;
- work with clients and communicate effectively with them;
- define a problem, and gather data, facts, opinions and information needed to analyse and solve it;
- outline and evaluate alternative solutions to a system development problem;
- perform a feasibility study that includes estimates of costs, time requirements, a schedule for the development, and the benefits expected from the system;
- identify hardware and software requirements for a system;
- document a system design using tools which include system flow charts and data flow diagrams;
- implement a system, including testing and debugging;
- evaluate a system, identifying any weakness or possible enhancements;
- operate effectively as a member of a development team.

Contact hours

1 hr lecture/wk, 3 hrs laboratories/wk

Workload

For on campus students, workload commitments are:

- 3 hour studio session
- 1 hour seminar
- Half an hour on personal reflection which includes: writing a reflection about the week's 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 will include a range of systems development activities

Unit relationships

Prerequisites

FIT1001, FIT1002, FIT1003, FIT1004, FIT1005, 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, GCO3819, GCO3700, GCO3800, GCO3900, GCO3800A, CPE3200, CPE3300, CSE3200, FIT3015, FIT3039, FIT3040, FIT3038, FIT3025, FIT3026, FIT3016, FIT3017, IMS3000, IMS3501, IMS3502

Teaching and learning method

Teaching approach

On-campus students: In this unit we try to simulate a real systems development experience. Students work in 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 prepare students for the workplace. The studio sessions give students the opportunity to work on their project, share their experiences with other students, and receive assistance from 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.its.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	Date*	Topic	Key dates
1	19/07/10	Campus specific seminars will be held	This unit runs independently on each campus. Students will be advised of campus specific delivery dates and deliverables.
2	26/07/10	Campus specific seminars will be held	
3	02/08/10	Campus specific seminars will be held	
4	09/08/10	Campus specific seminars will be held	
5	16/08/10	Campus specific seminars will be held	
6	23/08/10	Campus specific seminars will be held	
7	30/08/10	Campus specific seminars will be held	
8	06/09/10	Campus specific seminars will be held	
9	13/09/10	Campus specific seminars will be held	
10	20/09/10	Campus specific seminars will be held	

Mid semester break			
11	04/10/10	Campus specific seminars will be held	
12	11/10/10	Campus specific seminars will be held	
13	18/10/10	Campus specific seminars will be held	

*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

Based on student and client feedback, various activities will be carried out early in the semester to ensure a better mix of skills in each group. Formal mechanisms have also been introduced to get regular client feedback.

Unit Resources

Prescribed text(s) and readings

There are no prescribed 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, and will be required to carry out research related to their specific project.

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 an up-to-date listing. Anything additional is to be negotiated between the student teams 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:

- This Unit Guide outlining the administrative information for the unit;
- The Moodle unit web site on MUSO, where resources for the unit will be made available.

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 50% then a mark of no greater than 49-N will be recorded for the unit.

As the unit does not have a formal examination component students must obtain:

- at least 50% of the total marks for the unit AND
- at least 40% of the marks available for each deliverable component

If a student does not achieve 40% or more in each of the unit deliverables, 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 deliverables can vary depending on the specific requirement of the project but need to be negotiated and approved by the tutor and/or academic. Detailed information about assessment, deliverables and due dates will be provided at each campus.

All the deliverables are produced as a result of the work conducted by the group. Individual marks can differ from the group mark based on peer assessment, weekly reflections and the performance review.

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 submission and preparation requirements will be detailed in each assignment specification. 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:

<http://www.infotech.monash.edu.au/resources/student/equity/special-consideration.html>.

• Assignment task 1

Title:

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

Description:

A range of system development deliverables related to the project - details to be negotiated in the early stages of the development process.

Weighting:

100%

Criteria for assessment:

Detailed information about criteria for assessment will be provided at each campus.

Due date:

Varied throughout the semester - dates to be negotiated with Project Supervisor.

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.

Feedback

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

Informal feedback on progress in labs/tutes

Graded assignments with comments

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