FIT3144
Advanced computer science project

Unit Guide
Summer semester, 2014

Copyright © Monash University 2014. All rights reserved. Except as provided in the Copyright Act 1968, this work may not be reproduced in any form without the written permission of the host Faculty and School/Department.

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.

Last updated: 18 Nov 2014
## Table of Contents

**FIT3144 Advanced computer science project - Summer semester, 2014** ........................................1  
  *Workload Requirements* ..................................................................................................................1  
  *Unit Relationships* ..........................................................................................................................1  
  *Prohibitions* ..................................................................................................................................1  
  *Prerequisites* .............................................................................................................................1  
  *Chief Examiner* ............................................................................................................................1  
  *Campus Lecturer* ..........................................................................................................................1  
  *Clayton* ......................................................................................................................................1  
  *Your feedback to Us* ......................................................................................................................1  

**Academic Overview** ......................................................................................................................3  
  *Learning Outcomes* .......................................................................................................................3  

**Unit Schedule** ..................................................................................................................................4  
  *Teaching Approach* .........................................................................................................................4  
  *Assessment Summary* .......................................................................................................................4  

**Assessment Requirements** ...........................................................................................................6  
  *Assessment Policy* ..........................................................................................................................6  
  *Assessment Tasks* ...........................................................................................................................6  
  *Participation* ..................................................................................................................................6  
  *Learning resources* ..........................................................................................................................6  
  *Feedback to you* .............................................................................................................................6  
  *Extensions and penalties* ...................................................................................................................7  
  *Returning assignments* .....................................................................................................................7  
  *Assignment submission* ....................................................................................................................7  
  *Online submission* ...........................................................................................................................7  

**Other Information** ..........................................................................................................................8  
  *Policies* .........................................................................................................................................8  
  *Faculty resources and policies* ...........................................................................................................8  
    *Graduate Attributes Policy* ..............................................................................................................8  
  *Student Charter* .............................................................................................................................8  
  *Student services* .............................................................................................................................8  
  *Monash University Library* ...............................................................................................................9  
  *Disability Liaison Unit* .....................................................................................................................9
FIT3144 Advanced computer science project - Summer semester, 2014

This unit is intended to provide practical experience in designing, developing and testing a non-trivial computer science project. Projects are generally software-based, although sometimes they may involve hardware development or investigation of theory. Projects cover the whole process of software (or hardware) development, from analysis through design to implementation and testing. Comprehensive written documentation on the project is required. Students are assigned in groups to a project supervisor. There are no lectures in this unit, although students will be expected to attend regular meetings with their project supervisor. The application problem will normally be drawn from the student's field of specialisation.

Workload Requirements

Minimum total expected workload equals 24 hours per week. Students will be expected to hold regular meetings with supervisor(s) over the course of the semester.

Unit Relationships

Prohibitions

CSE3301, FIT3036

Prerequisites

FIT2004 or FIT3140 plus completion of a named minor or of 24 points of units counting towards a named major.

Chief Examiner

Dr David Albrecht

Campus Lecturer

Clayton

Ingrid Zukerman

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
Academic Overview

Learning Outcomes

On completion of this unit, students should be able to:

- write a project proposal;
- evaluate and select research methods and techniques of data collection and analysis appropriate to a particular project;
- search, access, and analyse research literature as part of the process of developing solutions to problems;
- communicate the deliverables of the project in written and oral form;
- write a moderately detailed report explaining methodology, outlining their contributions and the contributions of others, documenting the developed project from developer and user perspectives.
# Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>No formal assessment or activities are undertaken in week 0</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Details for the reading unit will be defined and approved individually by the academic supervisor for each student in a learning contract, which will include objectives, assessment details, due dates and an initial reading list. The details of the agreed assessment will be submitted to the Chief Examiner by the end of week 2 of the semester.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>SWOT VAC</td>
<td>No formal assessment is undertaken in SWOT VAC</td>
</tr>
</tbody>
</table>

*Unit Schedule details will be maintained and communicated to you via your learning system.

## Teaching Approach

### Problem-based learning

You will be presented with information and guided on how to best find solutions for a given problem.

## Assessment Summary

Projects are assessed by individual project supervisors.

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Contract</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>
Chief Examiner by the end of week 2 of the semester.
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: Assessment Contract

  Description: Assessment may be comprised of a research paper, project report, or equivalent, but will
be equivalent to the workload associated with one 12 credit point unit.

  Weighting: 100%

  Criteria for assessment:
  Details for this unit will be defined and approved individually by the academic supervisor
  for each student in a learning contract, which will include:
  ♦ objectives,
  ♦ assessment details,
  ♦ due dates and
  ♦ an initial reading list.

  Due date: The details of the agreed assessment will be submitted to the Chief Examiner by the end
  of week 2 of the semester.

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:

- Graded assignments with 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.

**Assignment submission**

It is a University requirement ([http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-academic-integrity-managing-plagiarism-collusion-procedures.html](http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-academic-integrity-managing-plagiarism-collusion-procedures.html)) 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:

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
- Assessment in Coursework Programs;
- 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/
- Academic and Administrative Complaints and Grievances Policy;
  http://www.policy.monash.edu/policy-bank/academic/education/management/complaints-grievance-policy.html

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/.
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/. At South Africa visit 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.

- Website: http://www.monash.edu/equity-diversity/disability/index.html
- 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