FIT5008
Digital communications project

Unit Guide

Semester 1, 2010

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Last updated: 01 Mar 2010
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FIT5008 Digital communications project - Semester 1, 2010

Chief Examiner:

Dr Nandita Bhattacharjee  
Senior Lecturer  
Phone: +61 3 990 53293  
Fax: +61 3 990 55159  

Contact hours: Wednesday 2:30PM-3:30PM

Lecturer(s) / Leader(s):

Clayton

Professor Balasubramaniam Srinivasan  
Professor  
Phone: +61 3 990 31333 +61 3 990 55333  
Fax: +61 3 990 31077  

Professor David Abramson  
Associate Director  
Phone: +61 3 990 51183 +61 3 990 34105  
Fax: +61 3 990 55159  

Dr Nandita Bhattacharjee  
Senior Lecturer  
Phone: +61 3 990 53293  
Fax: +61 3 990 55159  

Associate Professor Andrew Paplinski  
Associate Professor  
Phone: +61 3 990 53242  
Fax: +61 3 990 55159  

Dr Asad Khan  
Senior Lecturer  
Phone: +61 3 990 54556  
Fax: +61 3 990 55159  

Dr Carlo Kopp  
Lecturer  
Phone: +61 3 990 55229  
Fax: +61 3 990 55159  

Dr Iqbal Gondal  
Senior Lecturer  
Phone: +61 3 990 26669 +61 3 990 55203  

Charles Greif
FIT5008 Digital communications project - Semester 1, 2010

**Dr Jefferson Tan**  
Lecturer  
Phone: +61 3 990 31172  
Fax: +61 3 990 31077

**Associate Professor Bin Qiu**  
Associate Professor  
Phone: +61 3 990 59688  
Fax: +61 3 990 55159

**Additional communication information:**  
Charles.Greif@infotech.monash.edu.au
Introduction

Welcome to FIT5008 Digital communications project for semester 1, 2010. This 12-point project is a compulsory unit in the Master of Digital Communications degree program, unless the 24-point minor thesis option is taken. This unit can only be taken in a single semester.

The purpose of the project unit is to provide students with an opportunity to demonstrate that they can carry out a reasonably large piece of individual research, investigation, development and/or reporting work under supervision, and have it assessed. The project unit should be undertaken after the completion (or close to completion) of other units in the course.

Unit synopsis

The Digital Communications project requires a student to carry out a significant individual task in the Digital Communications field under academic supervision. The project can be conducted in a variety of topic areas, which may include: the design, development, prototype construction and testing of a significant protocol or device item in software or hardware an in-depth investigation and report of a relevant topic in information technology an in-depth investigation and report of an employment based topic with innovative and/or creative solutions. The project topic and summary must be approved by the project coordinator prior to its commencement.

Learning outcomes

At the completion of this unit students will have -

A knowledge and understanding of:

- a field of consolidated knowledge in digital communications;
- the technology and development in the project topic area;
- the concept of a significant individual task that involves research and innovation in digital communications;
- standards and protocols for the topic area;
- trends and developments in the topic area,

Have developed the ability to:

- analyse some specific protocols and technologies in the topic area and their operations;
- evaluate the advantages and disadvantages of particular technologies in specific topic area.

Developed attitudes that enable them to:

- appreciate the importance of carrying out a reasonably large piece of individual research, investigation and development and reporting under supervision;
- appreciate the importance of report writing and its related skills.

Developed the skills to:

- carry out an investigation into the selection and deployment of particular digital communications technologies;
- describe the characteristics of the key technologies in the topic area, and the role they play.

Demonstrated the communication and teamwork skills necessary to:

- communicate information on one or more advanced topics in digital communications area in written and/or oral form;
• work individually on one or more advanced topics in digital communications technology.

**Contact hours**

Regular meetings with supervisor(s) over the course of the unit enrolment

**Workload**

24 hours per week (for one semester enrolment) of research, laboratory work, private study and supervision meetings.

**Unit relationships**

**Prerequisites**

At least four units from the list of specified electives for the Master of Digital Communications.

**Prohibitions**

Other graduate project units.
Teaching and learning method

Teaching approach

Supervised individual research and experimentation as required by the project.

Students will work closely with their project supervisors during the entire period of the project. Students are expected to consult with and seek advice from their respective supervisors on a regular basis. In consultation with their supervisors, students are expected to produce a project proposal and project plan outlining the agreed project milestones and deliverable, and to steer the project to its completion.

Individual and group supervision and/or lecture to cover all objectives.

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

<table>
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<th>Week</th>
<th>Date*</th>
<th>Topic</th>
<th>Key dates</th>
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<tbody>
<tr>
<td>2</td>
<td>08/03/10</td>
<td>Project Proposal</td>
<td>12 noon, 12-03-2010</td>
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<td>3</td>
<td>15/03/10</td>
<td>Supervisor's approval</td>
<td>4 PM, 19-03-10</td>
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<td>4</td>
<td>22/03/10</td>
<td>Project Start</td>
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<td>5</td>
<td>29/03/10</td>
<td>Research</td>
<td></td>
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<td></td>
<td></td>
<td>Mid semester break</td>
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<td>6</td>
<td>12/04/10</td>
<td>Research</td>
<td></td>
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<td>7</td>
<td>19/04/10</td>
<td>Research</td>
<td></td>
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<tr>
<td>8</td>
<td>26/04/10</td>
<td>Research/Code development/testing</td>
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<td>10</td>
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<td>12</td>
<td>24/05/10</td>
<td>Report Writing</td>
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<tr>
<td>13</td>
<td>31/05/10</td>
<td>Project Report</td>
<td>12 noon, 7-06-10</td>
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*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.
Unit Resources

Prescribed text(s) and readings

As recommended by the supervisor.

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

As recommended by the supervisor.

Required software and/or hardware

Depends on the topic area, access to general software related with linux/MS Windows is necessary.

Equipment and consumables required or provided

A project room equipped with PCs running Linux/MS Windows. Out of hours access if required should be arranged with the supervisor.

Students studying off-campus are required to have the minimum system configuration specified by the Faculty as a condition of accepting admission, and regular Internet access. On-campus students, and those studying at supported study locations 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. You will need to allocate up to 5 hours per week for use of a computer, including time for newsgroups/discussion groups.

Study resources

Study resources we will provide for your study are:

the standard resources made available to post graduate students and those available/procured specifically by your supervisor.
Assessment

Overview

The project will be assessed mainly by the project supervisor and the result approved by the course coordinator.

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 project will be assessed mainly by the project supervisor and the result approved by the course coordinator.

Depending on the project topic, the assessed material resulting from the project will consist of:

1. the project proposal and plan;
2. the working prototype software and/or hardware, plus appropriate supporting and operational documentation;
3. an extensive report of the results of the investigation;
4. where appropriate, an oral presentation and demonstration to the examiner(s).
5. The assessed material must commensurate with at least 300 hours of graduate-level project work. As an indication, the 12 point project leading solely to a written report would typically result in a report of at least 12,000 words.

Project guidelines and assessment details are available at:


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:
FIT5008: Digital Communications Project Report

Description:
Refer to project guidelines at:


Weighting:
100%

Due date:
12 noon, 7-06-10

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:

Late assignment

Requests for extensions must be made to the unit Chief Examiner at your campus at least two days before the due date. You will be asked to forward original medical certificates in case of illness, and may be asked to provide other forms of documentation where necessary.

A copy of the email or other written communication of an extension must be attached to the report submission.

Reports received after the due date will be subject to a penalty of 5% per day. Reports received later than one week (seven days) 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