# ITEC812
## Special Topic in Information Technology
### S1 Evening 2015

*Dept of Computing*

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### General Information

Unit convenor and teaching staff

**Unit convenor**  
Manolya Kavakli-Thorne  
m manolya.kavakli@mq.edu.au  
Contact via 029850 9572  
E6A 372  
Tuesday - Thursday 10am-12 noon

**Credit points**  
4

**Prerequisites**
Admission to MInfoTech and permission of Executive Dean of Faculty and GPA of 3.0

**Corequisites**

**Co-badged status**

**Unit description**
The content and availability of this unit will vary subject to developments in the information and communications technology discipline and the availability of particular (often industrially-based) expertise. Special topic units present novel material of current interest and provide a context within which students may engage with emerging technologies and trends as they arise.

### Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at [http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/](http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/)

### Learning Outcomes

1. Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
2. Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.
3. Present a technical topic to experts and non-expects using appropriate software, tools and techniques available.
4. Discuss and debate questions posed, in the given topic area.
## Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
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<tbody>
<tr>
<td>Ethics assignment</td>
<td>10%</td>
<td>Week 4</td>
</tr>
<tr>
<td>Milestone report 1</td>
<td>20%</td>
<td>Week 5</td>
</tr>
<tr>
<td>Milestone report 2</td>
<td>20%</td>
<td>Week 10</td>
</tr>
<tr>
<td>Final report</td>
<td>40%</td>
<td>Week 12</td>
</tr>
<tr>
<td>Presentation</td>
<td>10%</td>
<td>Week 13</td>
</tr>
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### Ethics assignment

**Due:** Week 4  
**Weighting:** 10%

A report or essay - not more than 2,000 words in length covering an ethical aspect of IT.

This Assessment Task relates to the following Learning Outcomes:

- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.

### Milestone report 1

**Due:** Week 5  
**Weighting:** 20%

A report due in week 5 that provides a detailed proposal related to the topic under review.

This Assessment Task relates to the following Learning Outcomes:

- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
- Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.
Milestone report 2
Due: **Week 10**
Weighting: **20%**

The second report will be due in week 10 highlighting 'research' work completed to date.

This Assessment Task relates to the following Learning Outcomes:
- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
- Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.

Final report
Due: **Week 12**
Weighting: **40%**

The final report will be due at the end of week 12; showing results from the research project.

This Assessment Task relates to the following Learning Outcomes:
- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
- Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.

Presentation
Due: **Week 13**
Weighting: **10%**

A presentation to the supervisor and other interested personnel in the outcome of the project.

This Assessment Task relates to the following Learning Outcomes:
• Present a technical topic to experts and non-experts using appropriate software, tools and techniques available.
• Discuss and debate questions posed, in the given topic area.

**Delivery and Resources**

Resources (within reason), as provided by the Department of Computing for the student to undertake their project.

**Unit Schedule**

A weekly meeting with the academic supervisor.

A presentation in week 13.

**Policies and Procedures**

Macquarie University policies and procedures are accessible from [Policy Central](http://mq.edu.au/policy/docs/). Students should be aware of the following policies in particular with regard to Learning and Teaching:


In addition, a number of other policies can be found in the [Learning and Teaching Category](http://mq.edu.au/policy/) of Policy Central.

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student_conduct/](https://students.mq.edu.au/support/student_conduct/)

**Results**

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit [ask.mq.edu.au](http://ask.mq.edu.au).

**Student Support**

Macquarie University provides a range of support services for students. For details, visit [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)
Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- **Workshops**
- **StudyWise**
- **Academic Integrity Module for Students**
- **Ask a Learning Adviser**

Student Enquiry Service

For all student enquiries, visit Student Connect at ask.mq.edu.au

Equity Support

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

IT Help

For help with University computer systems and technology, visit http://informatics.mq.edu.au/help/.

When using the University’s IT, you must adhere to the Acceptable Use Policy. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

**Learning outcomes**

- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
- Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.
- Present a technical topic to experts and non-expects using appropriate software, tools and techniques available.
- Discuss and debate questions posed, in the given topic area.
**Assessment tasks**

- Milestone report 1
- Milestone report 2
- Final report
- Presentation

**PG - Critical, Analytical and Integrative Thinking**

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

**Learning outcomes**

- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
- Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.
- Discuss and debate questions posed, in the given topic area.

**Assessment tasks**

- Milestone report 1
- Milestone report 2
- Final report
- Presentation

**PG - Research and Problem Solving Capability**

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

**Learning outcomes**

- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
• Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.

Assessment tasks

• Milestone report 1
• Milestone report 2
• Final report

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcomes

• Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
• Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.
• Present a technical topic to experts and non-expects using appropriate software, tools and techniques available.
• Discuss and debate questions posed, in the given topic area.

Assessment tasks

• Ethics assignment
• Milestone report 1
• Milestone report 2
• Final report
• Presentation

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues.
This graduate capability is supported by:

**Assessment task**

- Ethics assignment

**PG - Capable of Professional and Personal Judgment and Initiative**

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

**Learning outcomes**

- Plan and self-manage projects demonstrating advanced project management skills with occasional input from academic staff assigned to supervise them.
- Present a technical topic to experts and non-experts using appropriate software, tools and techniques available.
- Discuss and debate questions posed, in the given topic area.

**Assessment tasks**

- Milestone report 1
- Milestone report 2
- Final report
- Presentation

**Standards**

<table>
<thead>
<tr>
<th>Grade</th>
<th>LO 1</th>
<th>LO 2</th>
<th>LO 3</th>
<th>LO 4</th>
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http://unitguides.mq.edu.au/unit_offerings/45527/unit_guide/print
<table>
<thead>
<tr>
<th>Plan and self-manage projects demonstrating advanced project management abilities with occasional input from academic staff assigned to supervise them</th>
<th>Produce a lengthy technical document explaining systems analysis and design, as well as coding work completed - specifically for individuals who may have no technical understanding of the topic.</th>
<th>Present a technical topic area to experts and non-experts using appropriate software, tools and techniques available</th>
<th>Discuss and debate questions posed, in the given topic area</th>
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<tbody>
<tr>
<td><strong>HD</strong></td>
<td>The student will be effectively self-managing – asking the supervisor for minimal guidance only.</td>
<td>The report is very well written, in a scholarly style, having drawn extensively upon the literature. The report will be understandable by expert and non-expert alike.</td>
<td>The student is very confident in their speech and manner of presentation without necessarily being arrogant. The student clearly knows the subject material very well, interacts with the audience and gets the message across.</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>The student will generally manage themselves but guidance will occasionally be necessary for fear of the project tracking incorrectly.</td>
<td>The report is well structured, but expression may occasionally be clumsy or literature drawn upon may have been more extensive.</td>
<td>The student may occasionally appear nervous, but the presentation is professional, well delivered and understandable by the audience.</td>
</tr>
<tr>
<td>CR</td>
<td>The student requires fairly constant guidance from the supervisor.</td>
<td>The report is solid, literature is referred to, but the report lacks the sort of polish that would make turning the report into a conference paper quite an effort.</td>
<td>The presentation presents the material, the slides will be good, but the talk may not be that smooth or may appear dry.</td>
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<tr>
<td>P</td>
<td>The student only progresses with input from the supervisor. Progress is made, but typically driven by the supervisor.</td>
<td>The report explains the work conducted but there is relatively little recourse to the literature, and the writing style and grammar may contain numerous problems or errors.</td>
<td>The talk will be quite boring. The material will be covered, tools will be used in aiding the presentation but there is little audience interaction.</td>
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