School of Computing and Information Systems

Unit Outline

KXX331 ICT Project A

Semester 1, 2011
Sandy Bay Campus, Hobart
Newnham Campus, Launceston

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UNIT OVERVIEW

Introduction
The project course aims to provide students with the experience of developing a medium-scale ICT project in a small team. This unit provides students with the experience of working in a team and dealing with the associated problems of communication and team management.

Prerequisites
KXT202 or KXI301 or KXX231; KXT203 or KXI201 or KXI212 or KXI221

Unit Weight
12.5% of one academic year

Teaching Pattern
There are lectures in week 1 (7-8 hours), week 2 (2 hours), week 5 (2 hours), week 10 (2 hours). There are laboratories booked on Monday and Wednesday from 10-1. This is so that project students can get enough access
to computers. There is no tutor in the room, but the lecturers are available for consultation. You will have 30 minute meetings with your lecturer in weeks 3, 6, 10. You are expected to meet at least 3 times a week with your team members. You must also have weekly or fortnightly meetings with your client. In week 13 you have to give a presentation.

Unit Content

ICT Project provides students with the experience of developing a medium-scale software project in a small team. All aspects of the development lifecycle will be considered: problem specification, requirement extraction, system design, implementation, testing, documentation and integration. The units provide students with the experience of working in a team and dealing with the associated challenges of communication and team management.

In the first two years of your degree practical experience is limited to artificial assignments. ICT Project allows you to apply your theoretical knowledge on a real-world project so that you will be able to transfer to industry easily.

ICT project is broken into two units, KXX331 Project A and KXX332 Project B, which must be completed over consecutive semesters. Students work on the same project in both units, unless circumstances prevent this. In Project A you complete release 1 (or a third of the project), you complete the remaining two thirds in Project B.

Each student is placed into a project team of approximately 7 students; you will be involved in forming your own teams. Team size may vary due to class size. Teams are formed based on project choice from the list of projects available. Each project has a real client. In most cases the client is not a member of the University community. All clients need to be treated professionally.

A more detailed description of the unit is contained in the ‘Project Manual’ (available on the unit website).

For more information see the section titled ‘Content’ on the unit website.

Prior Knowledge and/or Skills

The students should have completed at least two years of ICT subjects prior to undertaking the project unit as this unit requires you to have ICT skills.

It is also advised that students undertake the project unit in their final year of study if possible. As the unit creates great opportunities for establishing contact with industry allowing easy transition to employment.

Learning Outcomes

On successful completion of this unit, you will be able to:

1. in development of a substantial ICT system, demonstrate foundational computing knowledge of:
   - programming, algorithms & data structures
   - systems and applications
   - historical and current trends
2. apply knowledge of computing, business and project management principles and technical skills to guide the development and implementation of a substantial ICT system by:
   - interpreting and critically analyzing an organizations needs
   - using systems analysis techniques and tools to analyse and model business processes & information requirements
   - using abstraction and computational thinking
   - evaluating strengths and weaknesses of potential solutions
   - creating artefacts using a variety of templates, techniques and tools
   - following a recognised software development methodology
   - adapting existing and emerging computing technologies.
3. act professionally by:
   - communicating in different modes to diverse audiences
   - adhering to professional and ethical codes of conduct
   - working independently and collaborating in diverse teams
   - considering economic, social, legal, and ethical consequences

Generic graduate attributes

The university has defined a set of generic graduate attributes expected in its graduates.
http://www.utas.edu.au/__data/assets/pdf_file/0010/29917/genericattributes_grads1.pdf Your course is designed to enable you to develop generic skills that are valued in, and expected of, graduates. These are skills that you will need to develop over time. Hence you are encouraged to look for opportunities, as you study each unit, to reflect on and improve these skills.

Knowledge

1. Students will be able to apply previous project management, systems analysis, and software development knowledge and independently learn new skills to build a software system according to client requirements and deadlines.
2. Students will be able to investigate and overcome issues and challenges associated with constructing a substantial piece of software.
3. Students will develop research skills to identify and use appropriate systems design and development tools
and other resources.

4. Students will be able to apply technical and information skills appropriate to the practice of project management in the ICT industry.

5. Students will develop a broad knowledge base in the application of project management principles.

Communication Skills

1. Students will develop the ability communicate effectively with a real world client, in particular to extract requirements from a client, analyse and organise the information and formulate ideas to provide a software solution.

2. Students will demonstrate strong oral and written skills through effective teamwork situations, be able to organise and present information in well structured user and technical documents and through effective verbal communication using communication technologies as appropriate.

Problem-solving

1. Students will develop effective problem-solving skills, be able to conceptualize problems and be able to find, acquire, evaluate and manage and use relevant information in a range of media to formulate a range of solutions to a non-trivial software project.

2. Students will have ability to interact effectively with others in order to work towards a common outcome.

Global Perspective

1. Students will be able to demonstrate mastery of skills appropriate to professional practice in preparation for the transition to an IT working environment.

2. Students will be able to recognise the critical importance of the field of project management in the development of software systems.

3. Students will have ability to interact with members of the Tasmanian IT industry.

4. Students will be able to function in a multicultural or global context as effective project management skills are transferable.

Social Responsibility

1. Students need to be able to acknowledge the social and ethical implications of their actions and appreciate the impact of social change on organisations and individuals where new technologies are implemented.

UNIT ASSESSMENT

Assessment Pattern

100% in-semester

Assessment Summary

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project - team component</td>
<td>60%</td>
<td>As specified in the Project Manual.</td>
</tr>
<tr>
<td>Project - individual component</td>
<td>40%</td>
<td>As specified in the Project Manual.</td>
</tr>
</tbody>
</table>

Assessment Items

**Item 1**

**Title:** Project - team component  
**Type:** In-Semester - group project  
**Task Length:** not applicable  
**Weighting:** 60%  
**Links to Learning Outcomes:** All  
**Due:** As specified in the Project Manual.  
**Description:** The team component is made up of: 30% Reports, 16% Software, 7% Marketing and 7% Professionalism. Each person in the team will get the same mark for the team component, so it is very important that you all work as a team and contribute to the best of your ability. The assessment is fully described in the Project Manual.

**Item 2**

**Title:** Project - individual component  
**Type:** In-Semester - group project  
**Task Length:** not applicable  
**Weighting:** 40%  
**Links to Learning Outcomes:** All  
**Due:** As specified in the Project Manual.  
**Description:** The individual component is made up of: 15% Reports, 9% Software, 3% Marketing, and 13% Professionalism. The assessment is fully described in the Project Manual.

See the 'Assessment' section in unit website for more detailed information about assessment items.
How your Final Grade will be determined

Overall assessment will be based on the student's performance throughout the semester. In order to achieve a pass (or better) result, a student must obtain:
- at least 45% of the mark for the team component
- at least 45% of the mark for the individual component
- at least 50% of the overall mark

UNIT RESOURCES

Unit Web Site

This unit is Web Dependent: content & communication. This means that you will need to use the Web for this unit. The unit website contains unit information and resources.
The unit website is accessed from http://www.utas.edu.au/coursesonline/. You will need to use your university email pop account username and password to log on to the MyLO system. Once authenticated by the system your personalised MyLO Learning Online area will be displayed. It contains links to the websites that you have permission to access - including the website for this unit.
If you are not able to access the unit website, please contact the University IT help desk:
  Entrance Level, Morris Miller Library, Sandy Bay Campus;
  Entrance Level, Launceston Campus Library, Newnham Campus.
  Telephone: 6226 1818 and 1300 304 903.
  The 1300 number is a local call from within Tas, with the exception of mobiles.
  Email: servicedesk@utas.edu.au
  Website: http://www.utas.edu.au/servicedesk/student/index.html

Prescribed Text

None

Readings


Software

The software that you will need to access the unit website and to study this unit, including general purpose software such as word processors, is provided on the computers in the School's computing labs. If you intend to use software on other computers please check that the versions are compatible. The software that you will need to use is dependant on which project you undertake.

GENERAL RESOURCES

School Website

School of Computing and Information Systems - Faculty of Science, Engineering, and Technology.
http://www.cis.utas.edu.au

Faculty Website

Information and Resources for Faculty of Science, Engineering and Technology students are available on the faculty website at: http://www.utas.edu.au/scieng

University Website

Information and Resources for 'Current Students' are available on the university website at:
http://www.utas.edu.au/students/

School Help Desk

Contact the School Help Desk if you have any queries or problems with accessing, using, or printing from the computers in the School of Computing and Information Systems labs.

In Hobart the Help Desk is located on level 3 in the Centenary Building, and is open from 10:00am-12:00pm, and 2:00pm-4:00pm Monday-Friday. The phone number is 6226 2929.

In Launceston the Help Desk is located near the entrance to the computing labs and is open from 10:00am-12:00pm, and 2:00pm-4:00pm Monday-Friday. The phone number is 6324 3447.

Both help desks will accept queries over the phone outside the standard opening hours.
The computer labs at the Cradle Coast Campus are maintained by ITR - please contact the University Help Desk for assistance with these computers.

**Computing Facilities**

The School has PC labs (running Windows 7), Mac labs (running Mac OS X 10.6), and special purpose Networking labs at the Newnham and Sandy Bay campuses. All students are provided with logins for Windows, Macintosh and Unix environments. If you have not used these facilities before please contact the School Help Desk to collect your account details. If you would like to access these facilities after hours please contact the School Help Desk.

In Hobart, there are 4 PC Labs, 2 Mac Labs, and 1 Networks Lab in the Centenary Building. In Launceston, there are 2 PC Labs, 1 Mac Lab, 1 Networks Lab, and one Multipurpose Lab in Building V.

**Use of Facilities**

Use of computing facilities provided by the School is subject to the School's Ethics Guidelines, details of which are posted at [http://www.cis.utas.edu.au/cisview/ethics.jsp](http://www.cis.utas.edu.au/cisview/ethics.jsp). Copies of the guidelines are also available in all School labs. The School's facilities may only be used for study-related purposes, and may not be used for personal gain. Anti-social behaviour in labs such as game playing, viewing pornography, loud discussion, audio without the use of head-phones, etc is strictly prohibited in all labs at all times. Eating, drinking, and smoking is not permitted in the labs. Before being granted access to the School's facilities, you will be required to sign a declaration that you have read and understand these guidelines, and that you will abide by them. Disciplinary action may be taken against students who violate the guidelines.

**Learning Strategies**

If you need assistance in preparing for study please refer to your tutor or lecturer. For additional information refer to the Learning Development website: [http://www.utas.edu.au/learndev/](http://www.utas.edu.au/learndev/)

If you will be using MyLO for the first time and would like some information on how to use MyLO refer to the following website: [http://www.utas.edu.au/coursesonline/mylo-support.htm](http://www.utas.edu.au/coursesonline/mylo-support.htm)

Some of the units you will study use videoconferencing to deliver lectures and tutorials. To enable you to get the best out of a videoconference please refer to the following guide: [http://www.its.utas.edu.au/videoconf/vcstudentguide.pdf](http://www.its.utas.edu.au/videoconf/vcstudentguide.pdf)

**Help resolving concerns about this unit**

In the first instance you should contact your lecturer. If the matter is not resolved then you should contact the Head of School. If the matter is still unresolved and you would like to know who to contact or the procedures for resolving your concern refer to the following website: [http://acserv.admin.utas.edu.au/complaints_info.html](http://acserv.admin.utas.edu.au/complaints_info.html)

The Tasmanian University Union (TUU) may also be able to assist.

The School reserves the right to alter the details contained in this Unit Outline. Students will be advised of changes to the outline via their University email account and it remains the responsibility of the student to check their email for such changes.

**Occupational Health and Safety**

The university is committed to providing a safe and secure teaching and learning environment. For more information see [http://www.admin.utas.edu.au/hr/ohs/pol_proc/](http://www.admin.utas.edu.au/hr/ohs/pol_proc/)

**University Services and Support**

If you are experiencing difficulties with your studies or assignments, have personal or life planning issues, disability or illness which may affect your course of study, you are advised to raise these with your lecturer in the first instance.

The University has staff available to assist you, such as the:

- Learning Development Advisor
- Student Counselor
- Careers Advisor
- Disability Officer

For more information and contact details see the Services and Support section on the University 'Current Students' web page: [http://www.utas.edu.au/students/](http://www.utas.edu.au/students/)

**GENERAL ASSESSMENT**
Approach to Learning

The University is committed to high standards of professional conduct in all activities, and holds its commitment and responsibilities to its students as being of paramount importance. Likewise, it holds expectations about the responsibilities students have as they pursue their studies within the special environment the University offers.

The University's Code of Conduct for Teaching and Learning states:

Students are expected to participate actively and positively in the teaching/learning environment. They must attend classes when and as required, strive to maintain steady progress within the subject or unit framework, comply with workload expectations, and submit required work on time.

You are expected to spend about 130 hrs studying in this unit - this includes attendance at scheduled teaching sessions. (For a 13 week semester this is, on average, 10 hr/wk.) This is the amount of study time that the 'typical' student will need to reach the level of competence and understanding required to fulfil the unit objectives. You are expected to:

- attend all scheduled teaching sessions, unless otherwise notified by the unit coordinator
- prepare for, and actively participate in all scheduled teaching sessions
- complete the assigned learning tasks
- review what has been learnt
- complete assessment items and submit them on time
- access and be familiar with the information and resources available on the unit website
- seek help from teaching staff if you have any questions or difficulties in studying this unit

You are encouraged to read the university's Code of Conduct for Teaching and Learning. Part A describes the 'Responsibility of the University to Students' and part B describes the 'Responsibilities of Students to the University'.


It is expected that students will familiarise themselves with access and use of the MyLO system operated by the University for the electronic delivery of course materials, and for various forms of communication.

It is expected that students will consult email sent to their University email address at least twice a week for notices relating to the administration of the unit, and for notification of the results of assignments.

It is expected that students will read the background material specified in the course curriculum, will actively attend and participate in tutorials, and be prepared to discuss relevant issues arising with tutors, lecturers and fellow students.

Student Expectations of the Unit

Students enrolled in this Unit may reasonably expect the following:

1. To be able to contact a lecturer or tutor by electronic mail, to raise issues arising in the unit, either relating to content or student performance within the unit.
2. Subject to availability, to be able to discuss such issues in person with the lecturer or tutor.
3. That assignments will be marked and the marks will normally be returned within 3 weeks of due dates.
4. That all relevant notices regarding the administration of the unit, including any necessary changes, will be communicated to all students enrolled in the unit via email.

These expectations are in addition to those specified in relevant University regulations.

Plagiarism

Unless specifically stated in the specification of the assessment item provided on the unit website, it is required that:

- work submitted by a student is the work of that student alone OR
- where the assessment item is to be completed by a group of students, the work submitted by the group of students is the work of that group of students alone.

While students are encouraged to discuss the assignments in this unit and to engage in active learning from each other, it is important that they are also aware of the University's policy on plagiarism. Plagiarism is taking and using someone else's thoughts, writings or inventions and representing them as your own; for example downloading an essay wholly or in part from the internet, copying another student's work or using an author's words or ideas without citing the source.

"Plagiarism is a form of cheating. It is taking and using someone else's thoughts, writings or inventions and representing them as your own; for example, using an author's words without putting them in quotation marks and citing the source, using an author's ideas without proper acknowledgment and citation, copying another student's work."
If you have any doubts about how to refer to the work of others in your assignments, please consult your lecturer or tutor for relevant referencing guidelines, and the academic integrity resources on the web at http://www.academicintegrity.utas.edu.au.

The intentional copying of someone else’s work as one’s own is a serious offence punishable by penalties that may range from a fine or deduction/cancellation of marks and, in the most serious of cases, to exclusion from a unit, a course or the University. Details of penalties that can be imposed are available in the Ordinance of Student Discipline – Part 3 Academic Misconduct, see http://www.utas.edu.au/__data/assets/pdf_file/0006/23991/ord91.pdf.

The University and any persons authorised by the University may submit your assessable works to a plagiarism checking service, to obtain a report on possible instances of plagiarism. Assessable works may also be included in a reference database. It is a condition of this arrangement that the original author’s permission is required before a work within the database can be viewed."

It is important that you understand this statement on plagiarism. Should you require clarification please see your unit coordinator or lecturer. Useful resources on academic integrity, including what it is and how to maintain it, are also available at: http://www.academicintegrity.utas.edu.au

Referencing

The preferred text referencing systems for the School is the Harvard system (also referred to as the author-date system). In your written work you will need to support your ideas by referring to scholarly literature, works of art and/or inventions. For information on presentation of assignments, including referencing styles: http://utas.libguides.com/referencing

It is important that you understand how to correctly refer to the work of others and maintain academic integrity. Failure to appropriately acknowledge the ideas of others constitutes academic dishonesty (plagiarism), a matter considered by the University of Tasmania as a serious offence. The university document on plagiarism contains information about referencing the work or ideas of others (see http://www.utas.edu.au/plagiarism/).

Submissions

The details of the submission method (paper, electronic or other) for each assignment will be supplied in a separate assignment specification sheet. All in-semester assignment submissions (including electronic submissions) are to include an Assignment Cover Sheet which includes a statement confirming that the submission is your own work. The Assignment Cover Sheet is available from the School Help Desk in Launceston and Hobart, and on the School's web site: http://www.cis.utas.edu.au/cisview/resources.jsp.

Students must take responsibility for the correct submission of their assignments. Students are expected to adhere to the following procedure for submission:

- Submitted files MUST be checked by the student to ensure that correct submission of the file has been undertaken.
- Students are expected to notify the Lecturer WITHIN TWO HOURS of submission if their files have not been submitted correctly.
- Students must take responsibility for safely backing up of their own files during the academic year to ensure that no files are permanently lost.

Extensions

Assessment items will not be accepted after the due date except under the conditions stated in the School policy on late assessment. http://www.cis.utas.edu.au/downloads/ExtensionPolicy.pdf (PDF - 100KB).

Review of Assessment and Appeals

1. It is expected that students will adhere to the following policy for review of any piece of continuous assessment.
   a. Within 5 days of the release of the assessment result, the student should request an appointment with the Lecturer. The student should be prepared to discuss specifically which section of the marking criteria they are disputing and why they consider the mark is inappropriate.
   b. Following this discussion, students may request a formal remark of the original submission (in accordance with Rule of Academic Assessment 111, clause 22.1). This remark will be undertaken, where practicable, by an alternative assessor.
2. Students may also request a review of the final result in a unit. The request and payment must be made within 10 days from the date of the result notification. Students are referred to Rule of Academic Assessment 111, clause 23 at http://www.utas.edu.au/university-council/university-governance/rules and http://www.studentcentre.utas.edu.au/examinations_and_results/results/result_review_results.htm.

Complaints Procedure
It is expected that students will adhere to the following policy for making any complaint or grievance directly related to a Unit:

a. In the first instance, students are to approach the Lecturer or Unit Coordinator concerned and arrange a time to speak with them about their concern.
b. If an issue remains unresolved, the student should approach the Head of School and arrange a time to speak with them about their concern.

If the School’s internal policy of complaints is unable to resolve an issue, students should consult Ordinance 8 Student Complaints for further direction, see http://acserv.admin.utas.edu.au/complaints_info.html

**Final Grade**

Passing grades will be awarded based on the AVCC guidelines:

- PP at least 50% of the overall mark but less than 60%
- CR at least 60% of the overall mark but less than 70%
- DN at least 70% of the overall mark but less than 80%
- HD at least 80% of the overall mark

In order to comply with the benchmarks set by the Faculty of Science, Engineering & Technology for distribution of grades in units, both the in-semester and examination marks that students obtain may be adjusted either upwards or downwards. See http://fcms.its.utas.edu.au/scieng/scieng/policies.asp for details of the Faculty Assessment Guidelines.