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**FIT5111 Information systems development practices - Semester 1, 2014**

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FIT5111 Information systems development practices - Semester 1, 2014

This unit is designed to provide students with an understanding of a range of tools and techniques for systems development and knowledge of a number of specific systems development methodologies. The main topics include the tools and techniques for systems development, the evaluation of the tools and techniques, evolution of development methodologies, the organisational context in which systems development takes place and a number of systems development approaches. These include participative development, soft systems approaches, object-oriented development, structured systems development approaches, data and information-oriented approaches and rapid application development.

Mode of Delivery

Caulfield (Day)

Workload Requirements

Minimum total expected workload equals 12 hours per week comprising:

(a.) Contact hours for on-campus students:

• Two hours of lectures
• One 2-hour tutorial

(b.) Additional requirements (all students):

• A minimum of 8 hours independent study per week in order to satisfy the reading and assignment expectations.

Unit Relationships

Prerequisites

FIT5130 or FIT9003 or equivalent

Chief Examiner

Dr Henry Linger

Campus Lecturer

Caulfield

Henry Linger

Consultation hours: By appointment
Tutors

Caulfield
David Grant
Consultation hours: By appointment

Dora Constantinidis
Consultation hours: By appointment

Zaheeruddin Asif
Consultation hours: By appointment

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

Previous Student Evaluations of this Unit

Based on student feedback:

We will involve the Learning Skills Unit from Monash Library to provide additional support for critical academic writing, critical evaluation and delivering presentations.

More visiting experts (from industry) will be invited to speak.

Formal assessment has not been changed because of the changed staffing arrangements for this unit

If you wish to view how previous students rated this unit, please go to
Academic Overview

Learning Outcomes

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

- describe the evolution of systems development methodologies;
- analyse the organisational context within which systems development takes place;
- assess the tools and techniques that are used in the development of information systems;
- select appropriate tools and/or techniques for the development of information systems;
- evaluate a real world project using systems development methodologies;
- critique and evaluate different system development methodologies.
## Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No formal assessment or activities are undertaken in week 0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Introduction, Overview of systems development concepts - traditional SDLC; evolution of system development approaches</td>
<td>Assignment 1: Critical Review handed out. References for papers 1-3 for tutorial review handed out</td>
</tr>
<tr>
<td>2</td>
<td>Guest Lecture; Learning Skills Unit, Monash Library - Writing Critical Reviews and Presentation Skills</td>
<td>Assignment 1 discussion</td>
</tr>
<tr>
<td>3</td>
<td>Philosophical perspectives (paradigms, ontology, epistemology). Frameworks for understanding, comparing, selecting and adopting System Development practices/methodologies</td>
<td>Review of first paper in tutorial</td>
</tr>
<tr>
<td>4</td>
<td>People/organisational themes in IS development approaches/practices - organisational cultures, stakeholders, communities of interest</td>
<td>Review of second paper in tutorial</td>
</tr>
<tr>
<td>5</td>
<td>Structured systems analysis and design and ER modelling practices; ISD methodologies SSADM, I.E. Objected-oriented development practices; ISD methodologies, RUP OOA</td>
<td>Assignment 1: Critical Review due. Presentation of Assignment 1 findings</td>
</tr>
<tr>
<td>6</td>
<td>Soft approaches/practices - ISD methodologies - SSM</td>
<td>Presentation of Assignment 1 findings. References for papers 4-6 for review handed out</td>
</tr>
<tr>
<td>7</td>
<td>Soft approaches/practices - ISD methodologies - SSM review; Effective Technical Human Implementation of Computer Systems (ETHICS)</td>
<td>Review of third paper in tutorial. Assignment 2: Case Study handed out. SSM tutorial to help with Case Study</td>
</tr>
<tr>
<td>8</td>
<td>Participative development approaches/practices - JAD; Prototyping; RAD - JMRAD, DSDM</td>
<td>Review of fourth paper in tutorial</td>
</tr>
<tr>
<td>9</td>
<td>Participative development approaches/practices - Agile methods - SCRUM</td>
<td>Review of fifth paper in tutorial</td>
</tr>
<tr>
<td>10</td>
<td>External development practices - application packages, outsourcing, offshoring</td>
<td>Review of sixth paper in tutorial</td>
</tr>
<tr>
<td>11</td>
<td>Other delivery methods and issues</td>
<td>Assignment 2: Case Study report due. Presentation of Case Study</td>
</tr>
<tr>
<td>12</td>
<td>Summary and Review</td>
<td>Presentation of Case Study</td>
</tr>
<tr>
<td></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

Lecture and tutorials or problem classes

Teaching of the unit will comprise of lecture presentations, tutorial discussions and practical assignments.

These sessions will raise significant issues related to weekly topics and provide students with the knowledge of fundamental theories and concepts. The issues will be critically examined through discussions based on reading materials and case studies. Reference to reading materials will be posted on the unit website in advance of the scheduled discussion. It is expected that students will have prepared for the session by reading the set material.

Assessment Summary

Examination (2 hours): 40%; In-semester assessment: 60%

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1: Critical Review and presentation of</td>
<td>20%</td>
<td>Assignment due Week 5. Presentation in Week 5 and 6</td>
</tr>
<tr>
<td>findings</td>
<td></td>
<td>tutorials</td>
</tr>
<tr>
<td>Assignment 2: Participation Assessment: Tutorials /</td>
<td>15%</td>
<td>Review tutorials will be in Weeks 3, 4, 6, 7, 8, and 9</td>
</tr>
<tr>
<td>Critical Reviews of journal articles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assignment 3: Case Study report and presentation</td>
<td>25%</td>
<td>Assignment due Week 10. Presentation in Week 10 and 11</td>
</tr>
<tr>
<td>Examination 1</td>
<td>40%</td>
<td>To be advised</td>
</tr>
</tbody>
</table>
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

It is expected that you will attend at least 80% of the lectures, particularly all lectures given by the industry experts.

Please note that you should attend all of the student presentations, as outlined in the individual assessment descriptions below, and attend at least four out of the six review presentations in tutorials.

• Assessment task 1

Title: Assignment 1: Critical Review and presentation of findings

Description: This will be an individual assignment. It will be a critical review of a published journal article that explores aspects of Information Systems Development (ISD) methodologies or approaches. Specific tasks and marking criteria will be distributed at the appropriate time during the semester. Presentations will be held in Week 5 and 6 tutorials. The presentation given earlier by the Language and Learning unit from the library will assist with skills needed to carry out such a critical evaluation.

Weighting: 20%

Criteria for assessment: This assignment will be assessed on:

♦ Originality and clarity of the argument and its development
♦ Ability to synthesise and reflect on relevant issues in ISD and the depth and breadth of those reflections
♦ Use of current and relevant literature
♦ Layout, structure, spelling, etc. and adherence to style guides including citation and reference standards
♦ Presentation of findings
♦ Review and feedback of other students' findings (during presentations)

Due date: Assignment due Week 5. Presentation in Week 5 and 6 tutorials
Assessment Requirements

• Assessment task 2

Title:
Assignment 2: Participation Assessment: Tutorials / Critical Reviews of journal articles

Description:
Individual reviews and commentaries on journal papers relevant to the lecture material, presented in tutorials. Assessment will be based on both tutor observations and peer assessment. This assignment will encourage you to demonstrate your understanding and knowledge of ISD practice by engaging with and reflecting on the relevant ISD literature and drawing meaningful conclusions from your reflections.

Weighting:
15%

Criteria for assessment:
You are expected to have read the paper specified for that tutorial, prepare some notes that summarise your understanding of the given paper, and identify questions and issues that, in your opinion, the paper raises related to ISD methodologies and/or practice, and be prepared to discuss this in a review group.

The assessment for this item is based on the peer evaluation and tutor observation of your performance in the review tutorials, including preparation, participation and contribution, the ability to allow and encourage others to contribute, the ability to share your understanding of ISD with other students and the ability to use the University library resources.

Due date:
Review tutorials will be in Weeks 3, 4, 6, 7, 8, and 9

Remarks:
The assessment will be made from the top 4 marks, out of the possible 6 review assessments, during the semester. Hence you must attend at least 4 of these 6 review tutorials. However, attending all presentations will assist in raising your assessment grade. Tutors may moderate this assessment after observing the groups in action.

• Assessment task 3

Title:
Assignment 3: Case Study report and presentation

Description:
The assignment will be a case study, using an appropriate methodology, to evaluate a real world situation. This will be a group assignment and will involve a report and presentation. Specific tasks and marking criteria will be distributed at the appropriate time during the semester. Presentations will be held in Week 10 and 11 tutorials.

Weighting:
25%

Criteria for assessment:
The submission and presentation will be assessed on completeness of the assessment task and the format of both the written and oral presentations of the task findings. As a group activity assessment will include peer reviews and tutor observation in order to assess different contributions of group members, both quantitative and qualitative. Feedback and constructive criticism will be assessed on other group's work observed during their presentations. Assistance and practical work will be given during the preceding tutorials in order to assist team building and team communication. The presentation given earlier in the semester by the Language and Learning unit from the library will assist with the formal presentation part of this assignment.

Due date:
Assignment due Week 10. Presentation in Week 10 and 11 tutorials

Examinations

• Examination 1

   Weighting:
       40%

   Length:
       2 hours

   Type (open/closed book):
       Closed book

   Electronic devices allowed in the exam:
       None

Learning resources

Reading list

Additional relevant readings and references will be provided on the unit Moodle website during the semester.

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:

• Informal feedback on progress in labs/tutes
• Graded assignments with comments

Extensions and penalties

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.monash.edu.au/exams/special-consideration.html
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) 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/. 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.

Required Resources

Please check with your lecturer before purchasing any Required Resources. Limited copies of prescribed texts are available for you to borrow in the library, and prescribed software is available in student labs.

Students must use the online facilities available through the unit Moodle website. Information regarding references, schedules, assessment tasks and so on will be available there. Students will also be expected to access and use the discussion forums. Students are also expected to use Library resources to support their assignment and tutorial work.

Students are required to word process their assignments for submission. Handwritten assignments will not be accepted.

Recommended Resources

It is recommended that you refer to:

Recommended text(s)

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: www.policy.monash.edu.au/policy-bank/academic/education/index.html

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
- 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/conduct/student-discipline-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