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FIT5133 Enterprise architecture and management - Semester 2, 2015

Covers the core skills for enterprise architects, addressing the structuring and delivery of IT services in organisations. Addresses topics including SaaS, Cloud computing, enterprise 2.0 and other collaborative technologies, services science management and engineering and services strategy.

Mode of Delivery

- Caulfield (Day)
- Caulfield (Online)
- Malaysia (Evening)

Workload Requirements

Minimum total expected workload equals 12 hours per week comprising:

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

- 2 hours of lectures
- One 2-hour tutorial

(b.) Study schedule for off-campus students:

- Off-campus students generally do not attend lecture and tutorial sessions, however should plan to spend equivalent time working through the relevant resources and participating in discussion groups each week.

(c.) Additional requirements (all students):

- A minimum of 8 hours independent study per week for completing lab and project work, private study and revision.

See also Unit timetable information

Unit Relationships

Co-requisites

For all students other than those enrolled in the Master of Business: FIT9123 or FIT5123 or FIT9006 or equivalent

Prerequisites

For students enrolled in the Master of Business: MGX5962 and three of (ACF5903, BTF5903, ECF5953, ETF5900, MGF5020, MGF5030, MGX5991, MGX5992 or MKX5955)
Chief Examiner

Associate Professor Vincent Cheng-Siong Lee

Campus Lecturer

Caulfield

Associate Professor Vincent Lee

Consultation hours: Monday 12:00-2:00 (Caulfield), other times by appointment

Malaysia

Anushia Inthiran

Tutors

Caulfield

Chan CHEAH

Mohammed ALADALAH

Kevin LIAO

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

Updates made to this unit:

1) To introduce "clicker" to improve students' lecture attendance so that more participation of interactions.

2) To redesign of assignment questions to further strengthen students' critical thinking on open-ended assignment questions to more closely alignment with the learning outcomes.
If you wish to view how previous students rated this unit, please go to https://emuapps.monash.edu.au/unitevaluations/index.jsp
Academic Overview

Learning Outcomes

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

1. describe the purpose of enterprise architectures and the underlying principles of their design;
2. explain individual IT systems and services as interrelated components of an enterprise-wide platform;
3. implement knowledge of industry-standard enterprise architecture models, approaches, frameworks and standards;
4. describe into the need for sound data, information and technology governance strategies;
5. implement substantively to decisions regarding the design of an enterprise architecture for an organisation;
6. explain the alignment of an organisation's IT strategy, platforms and systems with the overall organisational strategy and management functions.
## 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 to key concepts and overview of agile enterprise architecture</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Enterprise as complex system, EA framework (Zachman, TOGAP, etc), structure and culture of agile EA</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Agile Architecture in Practice, Zapthink 2020 vision</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Implementing agile EA methodology and documentation framework, architecture components and artifacts</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Developing current and future architecture view and enterprise architecture management plan</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Communication of EAs and a Language for enterprise modelling Assignment 1 due Monday 31 August 2015 by 4:00 pm</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Guidelines for modelling, architecture analysis and alignment</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Enterprise Architecture tool support</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Clustering of Enterprise Architectures patterns</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Using an EA: investment planning and project management; security and privacy</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Can we do agile EA and future trends in Enterprise Architecture</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Unit summary and Examination Revision Assignment 2 due Monday 19 Oct 2015 by 4:00 pm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SWOT VAC No formal assessment is undertaken during SWOT VAC</td>
<td></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

This teaching and learning approach helps students to initially encounter information at lectures, discuss and explore the information during tutorials, and practice in a hands-on-lab environment* with case studies.
## Assessment Summary

Examination (3 hours): 60%, In-semester assessment: 40%

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1 - Investigating the EA definitions, frameworks and approaches</td>
<td>20%</td>
<td>Week 6, Monday 31 August 2015 by 4:00 pm</td>
</tr>
<tr>
<td>Assignment 2 - Investigating Implementation Issues of Enterprise Architecture and Management</td>
<td>20%</td>
<td>Week 12, Monday 19 October 2015 by 4:00 pm</td>
</tr>
<tr>
<td>Examination 1</td>
<td>60%</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

Hurdle Requirements

All students must pass hurdle of 40% for both examination and non-examination components.

Participation

• Assessment task 1

  Title: Assignment 1 - Investigating the EA definitions, frameworks and approaches
  Description: Students will conduct a survey of literature on various types of frameworks and
                approaches that could be used to align enterprise’s IT architecture with
                Business architecture in order to achieve enterprise business goals.
  Weighting: 20%
  Criteria for assessment:
              - Justification on selection of the type of published articles
              - Discussion of the chosen enterprise architecture frameworks
              - Quality of the written report
  Due date: Week 6, Monday 31 August 2015 by 4:00 pm
  Remarks: Assignment 1 is designed to achieve learning outcomes #1, 2, and 3.

• Assessment task 2

  Title: Assignment 2 - Investigating Implementation Issues of Enterprise Architecture and
         Management
  Description: In this assignment, regardless of individual or group work, all students will be asked to
                investigate on the people implementation aspect, people and process implementation,
                and technology implementation aspects of EA for specific scenario for them to design an
                enterprise architecture, and their associated implementation issues and management
                governance structure.
All students will be given a choice of doing either individual or group-based assignments. Once a choice is made to the tutor, no change of choice is allowed without prior written approval from the lecturer. For group work, unless otherwise prior approval is given by the lecturer, only two members per group is permitted. Ideally two members should be in the same tutorial group to facilitate interaction in group activities. The final mark per student (no guarantee every student will be awarded same mark) in a group will be awarded in accordance with the effort and quality of his/her contribution to the group work. The tutor will monitor and assess each group member’s activity related to group work. If there is a complaint about no or little contribution by a member in the group, the complainant will have to notify the tutor who will carry out an investigation and make a recommendation to the lecturer. The lecturer's judgement applies. Any appeal from student must be lodged in writing to the CE within two weeks from date of judgement made known to the student. The CE’s decision is final.

**Weighting:**
20%

**Criteria for assessment:**
Criteria to be used include:

- Technical quality
- Discussion of the design architecture
- Quality of the written report

**Due date:**
Week 12, Monday 19 October 2015 by 4:00 pm

**Remarks:**
Assignment 2 is designed to achieve learning outcomes #4, 5 and 6.

**Examinations**

- **Examination 1**

  **Weighting:**
  60%

  **Length:**
  3 hours

  **Type (open/closed book):**
  Closed book

  **Hurdle requirements:**
  Must pass 40% hurdle in final examination component.

  **Electronic devices allowed in the exam:**
  None

  **Remarks:**
  This final closed book written examination is designed to achieve all six learning outcomes, i.e. (#1 through to 6)

**Learning resources**

Monash Library Unit Reading List (if applicable to the unit)
http://readinglists.lib.monash.edu/index.html
Feedback to you

Types of feedback you can expect to receive in this unit are:

- Informal feedback on progress in labs/tutes
- Graded assignments with comments
- Other: Students are to document themselves all tutorial discussions as tutorial tasks are based on interactive problem based learning methodology

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.

Resubmission of assignments

Any student whose assignment work is not up to requirement may be asked to resubmit part or all assignment tasks stipulated in assignment instructions.

Assignment submission

It is a University requirement 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 electronic submission). 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.

Recommended text(s)


Assessment Requirements


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: 

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