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FIT5133 Enterprise architecture and management - Semester 1, 2014

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 (Off-campus)

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.

Unit Relationships

Prerequisites

FIT5123 or FIT9006 or equivalent

Chief Examiner

Associate Professor Vincent Cheng-Siong Lee

Campus Lecturer
Caulfield

Vincent Lee

Consultation hours: Monday: 9:00 am - 10:00 am and 12:00 - 1.00 pm; other times by appointment

Tutors

Caulfield

Cheah Chan

Mohammed Aladalah

Kevin Liao

Hong-li Song

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
Academic Overview

Learning Outcomes

At the completion of this unit, students will be able to:

• understand the purpose of enterprise architectures and the underlying principles of their design;
• understand individual IT systems and services as interrelated components of an enterprise-wide platform;
• acquire knowledge of industry-standard enterprise architecture models, approaches, frameworks and standards;
• gain insight into the need for sound data, information and technology governance strategies;
• contribute substantively to decisions regarding the design of an enterprise architecture for an organisation;
• contribute to 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</td>
<td>Assignment 1 due Monday 07 April 2014 by 4:00 pm</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>Assignment 2 due Monday 19 May 2014 by 4:00 pm</td>
</tr>
<tr>
<td>12</td>
<td>Unit summary and Examination Revision</td>
<td>No formal assessment is undertaken during SWOT VAC</td>
</tr>
<tr>
<td></td>
<td>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*. 
### 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>Investigating Enterprise IT and Business Architecture</td>
<td>20%</td>
<td>Week 6, Monday 07 April 2014 by 4:00 pm</td>
</tr>
<tr>
<td>Investigating Implementation Issues of Enterprise</td>
<td>20%</td>
<td>Week 11, Monday 19 May 2014 by 4:00 pm</td>
</tr>
<tr>
<td>Architecture and Management</td>
<td></td>
<td></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: Investigating Enterprise IT and Business Architecture
  Description: Students will conduct a survey of literature on various types of frameworks 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 07 April 2014 by 4:00 pm

• Assessment task 2

  Title: Investigating Implementation Issues of Enterprise Architecture and Management
  Description: Students will be given a specific scenario for them to design an enterprise architecture, and their associated implementation issues and management governance structure.
  Weighting: 20%
  Criteria for assessment:
  ∗ Technical quality
Discussion of the design architecture
♦ Quality of the written report

Due date:
Week 11, Monday 19 May 2014 by 4:00 pm

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

Learning resources

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
• 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 (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.

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:


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/complaints-grievance-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