Information Technology

Real-Time Enterprise Systems

Semester 2, 2022

Introduction to FIT3138

The Teaching Team

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➢ Use your Monash account for all emails to lecturer and tutors

Lectures & Consultation

- Lectures:

    - ➢ On Campus on Friday 1 – 3pm
    - ➢ Recording will be made available on Moodle 'Lecture Streaming/Recording Link' by Friday evening

- Tutors' consultation will start from week 3 and will be posted on Moodle

Tutorials

- Enrol for tutorials on Allocate+ :
  - https://www.monash.edu/timetables/allocate/enter-preferences
- If you need help with your timetabling:
  - Submit a Student Timetable Help Form via : https://connect-forms.apps.monash.edu/students/timetables/allocate/help/

- No tutorial in week 1.
  Please read articles posted on Moodle.

- Tutorial starts in week 2

- It is highly recommended that you attend tutorial as the discussion will support your learning and help you prepare for the exam.

- Zoom link for online tutorials is provided in the Moodle.

Tutorials
Subject to change – Please check timetable

No	Day	Time	Location
2	Monday	10:00	CL_Anc-19.LTB_G03
4	Monday	14:00	CL_Anc-19.LTB_G03
5	Monday	17:00	CL_Anc-19.LTB_323
6	Wednesday	14:00	Online

FIT3138 – An overview

- This unit provides both a theoretical and practical overview of real time enterprise systems.

- Real time enterprise systems are configurable information systems packages, implemented on-line that integrate people, technology and information processing.

- The three integrated processes within and across functional areas are seamlessly interconnected and almost time-lag free in an organisation.

FIT3138 – An overview (cont…)

- Topics include systems and technology background, Enterprise Systems (ES) evolution, ES lifecycle, implementation and configuration, ES and electronic commerce and ES success and failure factors.

- The theoretical component will be augmented by detailed case studies which focus on problems faced by real-life companies.

- For the practical component, laboratory exercises using a well-known enterprise system (SAP) will be used to deepen student understanding.

FIT3138 Unit Objectives

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

- Describe the characteristics, features and functionality of a real time enterprise system, the major application modules, and major business processes, data integration points, and the importance of master data, reporting, configuration and security that distinguishes it from other software systems.

- Explain the benefits of enterprise systems in terms of integration, world-wide flexibility, interactive processing, client-server platform, cloud computing, SOA, open systems, and the capacity to be configured for all business types.

FIT3138 Unit Objectives (cont…)

- Discuss implementation project team responsibilities, the importance of clear communication, people handling and team management skills that are required of an enterprise systems implementation/project manager using examples from actual business cases.

- Critically discuss the major factors that impact on stakeholders during an enterprise system implementation that can influence the project triple constraints and business success identified from both theoretical knowledge and actual business cases.
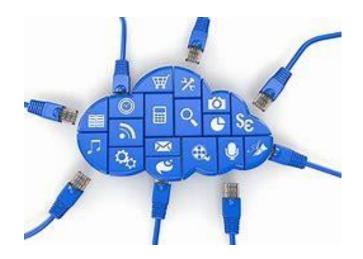
FIT3138 Unit Objectives (cont…)

- Demonstrate a capacity to describe and perform navigation functions and create master data objects in an enterprise systems system.

- Describe system-wide concepts such as workflow, reporting, and the exchange of information between business partners and employees.

- Explain the stages of an enterprise systems implementation lifecycle with particular focus on continuous change with regard to enhancement packs, upgrades, and new versions.

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Resources

- Moodle

- Downloads:

  - Lecture notes in *.PDF format
  - Tutorial questions and solutions
  - Lecture review questions
  - Sample examination papers

- Software:

  - SAP S/4 HANA

Recommended reading

Recommended texts and references:

- Motiwalla, L. & Thompson, J. (2015). Enterprise systems for management. (2e) Pearson

- Ellen Monk, Bret Wagner (2013). Concepts in Enterprise Resource Planning. (4e) Course Technology, Cengage Learning.

- Magal, S & Word, J. (2009). Essentials of Business Processes & Information Systems . (1st Ed) Wiley.

- Magal, S & Word, J. (2011). Integrated Business Processes with ERP Systems . (1st Ed) Wiley.

- Dimitris N. Chorafas (2005). The Real-Time Enterprise. (1st Ed) CRC Press Company.

Reading List

Assessment

This unit contains hurdle requirements which you must achieve to be able to pass the unit:

- At least 45% in the unit's examination,
- At least 45% in the unit's total non-examination assessment
- And an overall unit mark of 50% or more.

Unit Assessment		
Assessment	Due Date	% of Mark
Assignment 1	Week 7	20
Assignment 2	Week 12	20
Exam	TBA (2 hours 10 mins)	60
		100

Anticipated Workload (per week)

- 2 hours lecture

- 2 hours tutorial (starting Week 2)

- Approx. 6 hours preparation and assignment work (which may vary through the semester)

- Approx. 2 hours reading

Unit Outline

Week	W/C	Topic	Deadline:
1	25/07	Introduction to FIT3138; Introduction to Enterprise Systems	
2	01/08	Systems Integration - Role of ERP in Business Functions and Processes	Assignment 1 handed out
3	08/08	The Development of ERP Systems	
4	15/08	ERP in Sales and Marketing & CRM	
5	22/08	ERP in Production and Supply Chain Management	
6	29/08	Accounting in ERP Systems	
7	05/09	Process Modelling & Improvement	Assignment 1 due Assignment 2 handed out
8	12/09	ERP Implementation – Risk Management	
9	19/09	ERP Implementation – Data and System Integration and Configuration	
Mid-semester Break (26 Sep – 30 Sep 2022)			
10	03/10	ERP Implementation Issues: Managing Change	
11	10/10	Technologies supporting real-time enterprise	
12	17/10	Exam Review	Assignment 2 due

Seek assistance as a preventative measure

Take the following relevant preventative measures as soon as possible, if you are falling behind in your studies:

- Study difficulties: Discuss any difficulties you are experiencing with your course leader, unit coordinator, lecturer or tutor.
    - These staff members can assist you in identifying your problem areas and explore the options available to you in your course.

- Language and learning online can help you with study methods, language skills and work presentation
  http://www.monash.edu.au/lls/llonline/

- Student life and support services can be found at:
  http://monash.edu/students/support/

Disability Liaison Unit

If you have any form of health of physical condition that impacts on your study, DLU can help you.

The Disability Liaison Unit (DLU) provides a range of services for registered students including:

- Notetakers and Auslan interpreters

- Readings in alternative formats

- Adaptive equipment and software

- Alternative arrangements for exams

For further information and details about how to register:

Email: dlu@monash.edu

Phone: (03) 9905 5704

Web: www.monash.edu/equity-diversity/disability

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