IS4231
Information Security Management

Course Introduction

AY 2021/2022 Semester 1

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Teaching Staff

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  - For consultation sessions, please email in advance.
    - Prefix subject with "IS4231"

Learning Objectives

▸ Managerial aspects of information security
- ▸ For IS managers
- ▸ For IS security professionals

▸ Broad overview of challenges of managing information security in business organizations
- ▸ Technology
- ▸ Policy
- ▸ Education

▸ The focus of the module is on principles and concepts, rather than hands-on skills

Lectures

- The lectures are timetabled as lecture + tutorial style:
  - 2-hour – Lecture
    - Synchronous E-learn
      - Zoom meeting
      - Recorded videos on LumiNUS
  - 1-hour – Tutorial
    - Synchronous E-learn
      - Zoom meeting
      - Recorded videos on LumiNUS
    - Topics
      - Case study analysis.
      - Practitioner/research article critique.
      - Security incident analysis.
      - Peer teaching – Student-led seminar discussions
  - Meeting links
    - Check at: LumiNUS-> Conferencing

Lesson Schedule

Week	Date	Lecture Topics	
1	Aug 11	L0 – Welcome and Course Admin L1 – Introduction to Information Security Management	
2	Aug 18	L2 – Compliance: Law and Ethics	
3	Aug 25	L3 – Planning for Security	T1
4	Sep 01	L4 – Information Security Policy	T2
5	Sep 08	L5 – Developing the Security Program	T3
6	Sep 15	L6 – Security Management Practices	T4 (G)
Recess			
7	Sep 29	L7 – Mid term + Security Management Models I	T5 (G)
8	Oct 06	L8 – Security Management Models II	T6 (G)
9	Oct 13	L9 – Risk Management: Assessing Risk	T7 (G)
10	Oct 20	*Guest Talk – NUS InfoSec Management*	
11	Oct 27	L10 – Risk Management: Treating Risk	T8 (G)
12	Nov 03	L11– Planning for Contingencies	T9
13	Nov 10	L12– Course Review	

Tutorials

- ► Start from week 3
  - ▸ 1 hour
  - ▸ 9 sessions, 5 sessions of student-led seminar discussion
  - ▸ Three classes will be provided:
    - ▸ T1: Wed, 12pm-1pm
    - ▸ T2: Wed, 1pm-2pm
    - ▸ T3: Fri, 10am-11am (tbc)
- ► Tutorial Bidding
  - ▸ ModReg@EduRec
  - ▸ Allocation appeal issues
    - ▸ Tutorial Registration Coordinator (TRC):
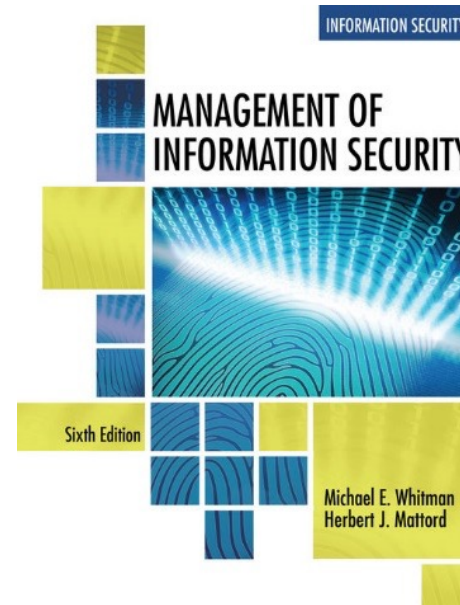   - ☐ Wang Qi: disqw@nus.edu.sg

Course Materials

- Main textbook:

Management of Information Security (6e)

Authors: Michael E. Whitman and Herbert J. Mattord

6th Edition (2019), Cengage

Course Materials

- **AE Management of Information Security, 6th Edition**
  - **Print Book:**
    - https://www.cengageasia.com/TitleDetails/isbn/9789814834735
    - Promo code: SGNUSAUG21
    - Special student price: $54.00 + GST, includes free delivery to local address.
    - Available in NUS Co-op.

  - **eBook**
    - https://www.cengageasiaestore.com/sg/management-of-information-security-cengage-ebook-12-months-digital-access.html
    - Price: $41.90 (1 year access)

- All other learning materials will be uploaded on LumiNUS.

Online Resources

▸ SC Magazine: https://www.scmagazine.com

▸ CSO: https://www.csoonline.com

▸ The Hacker News: https://thehackernews.com

▸ InfoRisk Today: www.inforisktoday.com

▸ Bank Info Security: www.bankinfosecurity.com

▸ etc.

Assessment

Continuous Assessment	Mid-term Quiz (Open Book)	10%
	Tutorial Attendance and Participation	10%
	Seminar Discussion (Group-based)	10%
	Group Project	20%
Final Assessment	Final Examination (Open Book)	50%
Total		100%

▸ Mid-term quiz (10%)
  ▸ MCQ/MRQs
  ▸ Format: LumiNUS quiz
  ▸ Time: Week 7, Wed, Lecture time

Assessment cont.

Continuous Assessment	Mid-term Quiz (Open Book)	10%
	Tutorial Attendance and Participation	10%
	Seminar Discussion (Group-based)	10%
	Group Project	20%
Final Assessment	Final Examination (Open Book)	50%
Total		100%

- Attendance and Participation (10%)
  - 1 guest talk
    - compulsory attendance - 1%
  - T1- T9
    - Attendance – 4.5%
    - Participation – 4.5%

Assessment cont.

Continuous Assessment	Mid-term Quiz (Open Book)	10%
	Tutorial Attendance and Participation	10%
	Seminar Discussion (Group-based)	10%
	Group Project	20%
Final Assessment	Final Examination (Open Book)	50%
Total		100%

▸ Seminar Discussion (10%)

  ▸ Group based work

  ▸ Each group will be provided with tutorial questions beforehand and present the work during tutorial time

▸ There will be peer review for group-based work

Assessment cont.

Continuous Assessment	Mid-term Quiz (Open Book)	10%
	Tutorial Attendance and Participation	10%
	Seminar Discussion (Group-based)	10%
	Group Project	20%
Final Assessment	Final Examination (Open Book)	50%
Total		100%

▸ **Group Project (20%)**

  ▸ Proposal – 2%

  ▸ Report – 18%

▸ **There will be peer review for group project**

Assessment cont.

Continuous Assessment	Mid-term Quiz (Open Book)	10%
	Tutorial Attendance and Participation	10%
	Seminar Discussion (Group-based)	10%
	Group Project	20%
Final Assessment	Final Examination (Open Book)	50%
Total		100%

- Final Exam (50%)
  - Time:
    - 29 Nov 2021, Mon, 5pm-7pm
  - Open book format
    - 50%
  - All lecture and guest talk topics will be examined.
  - More details during Week 13 revision lecture…

Group Project

- Group Formation:
  - Date: Tutorial 1 (Week 3)
  - 5 teams per class
  - Size: 3~4 members
  - Team members should be from the same tutorial class

- Project details
  - An InfoSec management topic study
  - Check: *Project specification* uploaded on LumiNUS