COMP 7007 INFORMATION SECURITY MANAGEMENT

Credit Points 10

Legacy Code 301162

Coordinator Yun Bai (https://directory.westernsydney.edu.au/search/name/Yun Bai/)

Description Cyber Crime costs are increasing at an alarming speed. Security management and ICT project management skills are now essential for IT industry. This unit provides the knowledge, skills, techniques and mechanisms on information security management as well as general ICT project management for postgraduate students. It covers topics on management aspect of information security such as business and Cybercrime, security awareness, security risks, security fundamentals, risk assessment and security system design, planning and regulatory issues for information system security. It also covers general ICT project management phases such as conception and initiation, project planning, project execution, performance and monitoring, and project close.

School Computer, Data & Math Sciences

Discipline Computer Science, Not Elsewhere Classified.

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Postgraduate Coursework Level 7 subject

Restrictions

Students must be enrolled in a postgraduate program.

Assumed Knowledge

Basic knowledge of computer system, computer security and basic programming skills.

Learning Outcomes

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

1. Analyse the impact of global interconnectedness on contemporary businesses, identifying potential vulnerabilities and threats stemming from cybercrimes.
2. Evaluate the application of fundamental project management principles and their challenges in the context of information security management.
3. Develop comprehensive strategies for effective project planning, including budgeting and scheduling, tailored to the unique demands of information security projects.
4. Explain the foundational concepts and the significance of information security, promoting best practices within an organisational context.
5. Assess security vulnerabilities across various stages of project management, devising measures and strategies to mitigate risks and ensure a secure project lifecycle.
6. Design security mechanisms to safeguard information assets and systems, including project management aspects.

Subject Content

1. Globalisation, business and cybercrimes
2. Project management basics and challenges
3. Project planning, budget and schedule
4. Information security basics and awareness
5. Security issues in various phases of project management
6. Security risks
7. Security mechanisms
8. Project risk assessment
9. Managing risk
10. Project execution, performance and monitoring
11. Security architecture
12. Security system design
13. Planning and regulatory issues for security

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task
Case Study	5-10 page report (per case study)	20	N	Individual
Quiz	2 hours	40	Y	Individual
Applied Project	15 pages report + 15 minutes group presentation	40	N	Group

Teaching Periods

Autumn (2024)

Melbourne
On-site
Subject Contact Yun Bai (https://directory.westernsydney.edu.au/search/name/Yun Bai/)

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP7007_24-AUT_MB_1#subjects)

Parramatta - Victoria Rd
On-site
Subject Contact Yun Bai (https://directory.westernsydney.edu.au/search/name/Yun Bai/)

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP7007_24-AUT_PS_1#subjects)