

# IS6526P: INFORMATION SYSTEMS SECURITY MANAGEMENT

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## Effective Term

Semester A 2026/27

## Part I Course Overview

### Course Title

Information Systems Security Management

### Subject Code

IS - Information Systems

### Course Number

6526P

### Academic Unit

Information Systems (IS)

### College/School

College of Business (CB)

### Course Duration

Non-standard Duration

### Other Course Duration

Intensive mode: 3 days

### Credit Units

1.5

### Level

P5, P6 - Postgraduate Degree

### Medium of Instruction

Other Languages

### Other Languages for Medium of Instruction

Putonghua supplemented by English

### Medium of Assessment

Chinese

### Prerequisites

Nil

### Precursors

Nil

### Equivalent Courses

Nil

**Exclusive Courses**

Nil

**Part II Course Details****Abstract**

Internet is part of our life today and Cybersecurity is becoming extremely important for Internet. This course aims to provide students with an overview of information security knowledge so as to protect an organization's information assets. Upon completion of this course, students are able to make use of security management models in today's dynamic business environment. Moreover, students can learn how to apply security knowledge for various business applications.

**Course Intended Learning Outcomes (CILOs)**

| CILOs |                                                                                                                                                                                | Weighting (if app.) | DEC-A1 | DEC-A2 | DEC-A3 |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|--------|--------|
| 1     | Describe the concept and key elements in data communication and information security.                                                                                          | 30                  | x      | x      |        |
| 2     | Evaluate and explain the value of information asset and the threats in today' s business environment.                                                                          | 20                  | x      |        | x      |
| 3     | Apply good security management principles by creatively and innovatively selecting and applying most security solutions (managerial and technical) for business organizations. | 40                  |        | x      | x      |
| 4     | Communicate effectively with the stakeholders to provide appropriate security solutions / consultancy to the business organizations.                                           | 10                  |        | x      | x      |

**A1: Attitude**

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

**A2: Ability**

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

**A3: Accomplishments**

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

**Learning and Teaching Activities (LTAs)**

| LTAs |                | Brief Description                                                                                                                                                                                                                                                                                                           | CILO No.   | Hours/week (if applicable) |
|------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|
| 1    | Lecture        | Students will learn about the threats and security attacking methods, key concepts of IS security principles and tools, information technology risks management, information security solutions (managerial and technical), and security management and policy through lectures.                                            | 1, 2, 3, 4 |                            |
| 2    | Class Activity | Students will participate in short tests (in the form of short questions, cases or article readings of the related subjects) to enhance the application of concepts and theories learned in the class, or group discussion to cultivate critical thinking and application of the concepts to the actual business scenarios. | 1, 2, 3, 4 |                            |

**Assessment Tasks / Activities (ATs)**

| ATs |                                                                                                                                                                                                                                               | CILO No.   | Weighting (%) | Remarks | Allow Use of GenAI? |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|---------|---------------------|
| 1   | Class Participation:<br><br>Each lecture consists of exercises, quizzes, small group discussions, self-reflection, or student presentations to assess students' understanding of the chosen topics and their abilities to apply their skills. | 1, 2, 3, 4 | 30            | -       | Yes                 |

|   |                                                                                                                                                                                                                                   |            |    |   |     |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----|---|-----|
| 2 | Individual Project:<br>An individual project, which includes a project report and presentation, will be allocated to let students apply security management concepts and methodology to solve security risks in the organisation. | 1, 2, 3, 4 | 30 | - | Yes |
| 3 | Assignment:<br>A written assignment will be used to assess students' understanding of information systems security management knowledge.                                                                                          | 1, 2, 3, 4 | 40 | - | Yes |

**Continuous Assessment (%)**

100

**Assessment Rubrics (AR)****Assessment Task**

Class Participation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 &amp; thereafter)

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**Excellent**

(A+, A, A-) Demonstrate strong ability to describe the concept and key elements in data communication and information security.

**Good**

(B+, B, B-) Demonstrate good ability to describe the concept and key elements in data communication and information security.

**Fair**

(C+, C, C-) Demonstrate moderate ability to describe the concept and key elements in data communication and information security.

**Marginal**

(D) Demonstrate marginal ability to describe the concept and key elements in data communication and information security.

**Failure**

(F) Demonstrate little to no ability to describe the concept and key elements in data communication and information security.

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## **Part III Other Information**

### **Keyword Syllabus**

IS Auditing; IS Security Management Practices; Information Technology Risks Management; Controls Framework; Electronic Payment Systems and Infrastructure; Security Policy; Threats; Attacking Methods; Security Principles and Tools; Network Security; Cryptography; Firewall; Access Control; Intrusion Detection Systems.

### **Reading List**

### **Compulsory Readings**

| Title |                                                                                                                              |
|-------|------------------------------------------------------------------------------------------------------------------------------|
| 1     | Michael E. Whitman, Herbert J. Mattord, Principles of Information Security, Course Technology, 6th edition (March 13, 2017). |

**Additional Readings**

| Title |                                                                                                               |
|-------|---------------------------------------------------------------------------------------------------------------|
| 1     | Randall J. Boyle, Raymond R. Panko, Corporate Computer Security, 4/E, 2015, Pearson, ISBN: 978-0-13-354519-7. |
| 2     | Other Resources                                                                                               |
| 3     | Selected readings from: Computers and Security; ISACA Journal                                                 |