

**City University of Hong Kong
Course Syllabus**

**offered by Department of Information Systems
with effect from Semester B 2024 / 2025**

Part I Course Overview

Course Title:	Information Systems Planning and Strategy
Course Code:	IS6640
Course Duration:	One Semester (13 weeks)
Credit Units:	3
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	Nil
Precursors: <i>(Course Code and Title)</i>	Nil
Equivalent Courses: <i>(Course Code and Title)</i>	IS5642 Electronic Business Strategies and Management IS6641 eCommerce Business Strategies and Management
Exclusive Courses: <i>(Course Code and Title)</i>	Nil

Part II Course Details

1. Abstract

The course aims to examine the role of information systems in assisting achievement of corporate objectives, and to consider methods for strategic and tactical planning of information systems.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Participate in developing a strategic plan for information systems development and assist in establishing an information technology policy.	20%			
2.	Use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools.	30%	✓	✓	
3.	Analyze a company's business model and capabilities, and determine the role for information systems in that organization.	30%	✓	✓	✓
4.	Explain how decisions are made for the applications portfolio.	10%			
5.	Identify and assess the sourcing strategies and governance issues in information systems planning for an organization.	10%			
		100%			

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.

3. Learning and Teaching Activities (LTAs)

(LTAs designed to facilitate students' achievement of the CILOs.)

Seminar/Workshop : 39 hours

LTA	Brief Description	CILO No.					Hours/week (if applicable)
		1	2	3	4	5	
LTA1: Lecture	<p>Students will learn the following concepts of information systems strategies and information systems planning:</p> <ul style="list-style-type: none"> • The value of IT in organizational strategic planning • IS use to create competitive advantages • Strategic alignment between business and IS strategies • Techniques for IS strategy formulation – scenario planning, five forces model, value chain concept, supply chain concept, ERP concept, and CRM concept • Strategy implementation and measurement – balanced scorecard approach • E-business models and related strategies • IS sourcing strategy • Managing IT investment – portfolio approach • Change management 	✓	✓	✓	✓	✓	
LTA2: Class activities – team work	<p>Students will involve in different types of class activities throughout the semester such as:</p> <ul style="list-style-type: none"> • Real world cases studies: students will apply and integrate what they learn through classroom discussions and reading into real-world case analyses. • Discussions and presentations 	✓	✓	✓	✓	✓	
LTA3: Practical exercises – individual work	<p>Students are required to carry out a strategic analysis for an organization. The individual assignment will be submitted around the middle of the semester. This exercise can then serve as the starting point for the group project which is submitted by the end of the semester.</p>		✓	✓			
LTA4: Team project – team work	<p>On top of the case analyses done in the classes, students have to submit a group report assessing the effectiveness of IT uses in increasing the competitive advantages of a particular organization.</p> <p>Students will work in a team of 5-8 members. The team has to pick one organization as the study target. They are required to submit a business proposal on how IS/IT may affect the industry in which the organization is engaged and what business opportunities the organization should take in order to gain or sustain competitive advantage.</p>	✓	✓	✓	✓		

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.					Weighting	Remarks
	1	2	3	4	5		
Continuous Assessment: 60%							
<u>AT1: Participation</u> Students should participate in the class activities, such as, small group discussions and presentations, self reflection, raise and answer questions, and the like. The participation is used to assess students' understanding of the topics and their abilities to apply their skills.	✓	✓	✓	✓	✓	10%	
<u>AT2: Individual Assignment Analysis</u> Students will analyze a real world case and write an essay to address relevant strategic issues.		✓	✓			20%	
<u>AT3: Group work</u> <u>A group should be responsible for finishing a group project (30%). The project which includes a project report and presentation will be allocated to let students analyze a topic in-depth and share their findings with other course participants. 20% will be contributed by the written report, while 10% will be counted on the presentation.</u>	✓	✓	✓	✓		30%	
Examination: 40% (duration: one 2-hour exam)							
<u>AT4: Final Examination</u> A written examination is developed to assess students' competence level of the taught subjects.	✓	✓	✓	✓	✓	40%	
						100%	

Note: Students must pass BOTH coursework and examination in order to get an overall pass in this course.

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
AT1: Participation	Ability to participate in developing a strategic plan for information systems development and assist in establishing an information technology policy	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to explain how decisions are made in an organization about the applications portfolio	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to identify and assess the sourcing strategies and governance issues in information systems planning for an organization	High	Significant	Moderate	Basic	Not even reaching marginal levels
AT2: Individual Assignment Analysis	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Significant	Moderate	Basic	Not even reaching marginal levels
AT3: Group work	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Significant	Moderate	Basic	Not even reaching marginal levels
AT4: Final Examination	Ability to participate in developing a strategic plan for information systems development and assist in establishing an information technology policy	High	Significant	Moderate	Basic	Not even reaching marginal levels

	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to explain how decisions are made about the applications portfolio	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Capability to identify and assess the effect of sourcing strategies and governance issues in information systems planning for an organization	High	Significant	Moderate	Basic	Not even reaching marginal levels

Applicable to students admitted from Semester A 2022/23 to Summer Term 2024

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B,)	Marginal (B-, C+, C)	Failure (F)
AT1: Participation	Ability to participate in developing a strategic plan for information systems development and assist in establishing an information technology policy	High	Moderate	Basic	Not even reaching marginal levels
	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Moderate	Basic	Not even reaching marginal levels
	Ability to explain how decisions are made in an organization about the applications portfolio	High	Moderate	Basic	Not even reaching marginal levels
	Capability to identify and assess the sourcing strategies and governance issues in information systems planning for an organization	High	Moderate	Basic	Not even reaching marginal levels
AT2: Individual Assignment Analysis	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Moderate	Basic	Not even reaching marginal levels

AT3: Group work	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Moderate	Basic	Not even reaching marginal levels
AT4: Final Examination	Ability to participate in developing a strategic plan for information systems development and assist in establishing an information technology policy	High	Moderate	Basic	Not even reaching marginal levels
	Capability to use methods for strategic analysis, decide on the information needs and priorities of management in an organization, and assess information technology systems as competitive tools	High	Moderate	Basic	Not even reaching marginal levels
	Capability to analyze a company's business model and determine the role for information systems in that organization	High	Moderate	Basic	Not even reaching marginal levels
	Ability to explain how decisions are made about the applications portfolio	High	Moderate	Basic	Not even reaching marginal levels
	Capability to identify and assess the effect of sourcing strategies and governance issues in information systems planning for an organization	High	Moderate	Basic	Not even reaching marginal levels

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

- Business strategy concept
- IS strategy concept
- Strategic alignment between business and IS strategies
- Emerging information technology opportunities including Digital Transformation and Artificial Intelligence
- Scenario planning
- Five forces model, value chain concept, supply chain concept, enterprise resource planning concept, customer relationship management concept
- eBusiness models and strategies
- Balanced scorecard analysis
- Application portfolio approach
- Sourcing strategy
- IS outsourcing

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	Nil
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2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	Applegate, L., Austin, R.D. and Soule, D.L., <u>Corporate Information Strategy Management: Text and Cases</u> , 8th edition, McGraw Hill, 2009.
2.	Applegate, L., Austin, R.D. and McFarlan, F., <u>Corporate Information Systems Management: Text and Cases</u> , 7th edition, McGraw Hill, 2007.
3.	Pearlson, K., Saunders, C., <u>Managing and Using Information Systems – A Strategic Approach</u> , 3rd edition, John Wiley & Son, 2006
4.	Luftman, J., et al., <u>Managing the Information Technology Resource – Leadership in the Information Age</u> , Pearson Prentice Hall, 2004.

Supplementary readings may be assigned for each lecture