**City University of Hong Kong**
**Course Syllabus**

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

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## Part I Course Overview

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| **Course Title:** | Foundations of Information and Electronic Business Systems |
| **Course Code**: | IS5313 |
| **Course Duration:** | One Semester (13 weeks) |
| **Credit Units**: | 3 |
| **Level**: | P5 |
| **Medium of Instruction:** | English |
| **Medium of Assessment:** | English |
| **Prerequisites**: *(Course Code and Title)* | Nil |
| **Precursors**: *(Course Code and Title)* | Nil |
| **Equivalent Courses**: *(Course Code and Title)* | Nil |
| **Exclusive Courses**: *(Course Code and Title)* | Nil |

## Part II Course Details

### 1. Abstract

*This course aims to:*

- provide an introduction to information systems (IS) in general and electronic business (e-business) applications in particular, and
- enable students to analyze the managerial issues related to information and e-business systems in organizations and deploy these systems effectively.

### 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. | Conduct environmental and internal analyses to identify the needs for information and electronic business systems. | 25% | ✓ | ✓ | |
| 2. | Explain the major types of information and e-business systems and their capabilities. | 30% | | | |
| 3. | Explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | 30% | ✓ | ✓ | |
| 4. | Assess emerging issues related to the use of information and e-business systems. | 15% | ✓ | ✓ | |
| | | 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.)*

| LTA | Brief Description | CILO No. | | | | Hours/week (if applicable) |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | |
| LTA1: Lecture | Students will learn the core theoretical frameworks used to conduct environmental and internal analyses to identify the needs for information and e-business systems. Further, students will learn various types of information and e-business systems, and describe how these systems can be deployed to achieve competitive advantages for organizations. Finally, students will learn other emerging issues related to the use of such systems. | ✓ | ✓ | ✓ | ✓ | |
| LTA2: Case Studies | Throughout the semester, students will apply and integrate what they learn through classroom discussions, textbook readings, and real-world case analysis. Students are expected to participate actively in in-class discussions to gain in-depth understanding of the key issues related to the cases. | ✓ | ✓ | ✓ | ✓ | |
| LTA3: Projects | Students will conduct individual and/or group projects to apply the concepts learned in class, and use creative and critical thinking skills to communicate the ideas and results of their work. | ✓ | ✓ | ✓ | ✓ | |

## 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 | | |
| Continuous Assessment: 50% | | | | | | |
| **AT1: Discussion and Participation**<br>The instructor encourages a two-way, interactive learning environment; thus, students are expected to participate actively in class. Discussion and participation opportunities include group discussions, self-reflections, individual presentations, and others. | ✓ | ✓ | ✓ | ✓ | 25% | |
| **AT2: Project**<br>Students will be expected to demonstrate their understanding of the course material by applying the concepts in individual and/or group projects. A project typically comprises a written report as well as a project presentation and/or social media presentation. | ✓ | ✓ | ✓ | ✓ | 25% | |
| Examination: 50% (duration: one 2-hour exam) | | | | | | |
| **AT3: Final Examination**<br>The final exam is used to assess the student's competence in the taught subjects and will cover the readings assigned in class as well as the lectures, tutorials, and cases and examples mentioned in class. | ✓ | ✓ | ✓ | ✓ | 50% | |
| | | | | | 100% | |

## 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: Discussion and Participation | Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Ability to explain the major types of information and e-business systems and their capabilities. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Capability to assess emerging issues related to the use of information and e-business systems. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| AT2: Project | Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Ability to explain the major types of information and e-business systems and their capabilities. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Capability to assess emerging issues related to the use of information and e-business systems. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| AT3: Final Examination | Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Ability to explain the major types of information and e-business systems and their capabilities. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | High | Significant | Moderate | Basic | Not even reaching marginal levels |
| | Capability to assess emerging issues related to the use of information and e-business systems. | 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: Discussion and Participation | Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems. | High | Significant | Basic | Not even reaching marginal levels |
| | Ability to explain the major types of information and e-business systems and their capabilities. | High | Significant | Basic | Not even reaching marginal levels |
| | Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | High | Significant | Basic | Not even reaching marginal levels |
| | Capability to assess emerging issues related to the use of information and e-business systems. | High | Significant | Basic | Not even reaching marginal levels |
| AT2: Project | Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems. | High | Significant | Basic | Not even reaching marginal levels |
| | Ability to explain the major types of information and e-business systems and their capabilities. | High | Significant | Basic | Not even reaching marginal levels |
| | Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | High | Significant | Basic | Not even reaching marginal levels |
| | Capability to assess emerging issues related to the use of information and e-business systems. | High | Significant | Basic | Not even reaching marginal levels |
| AT3: Final Examination | Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems. | High | Significant | Basic | Not even reaching marginal levels |
| | Ability to explain the major types of information and e-business systems and their capabilities. | High | Significant | Basic | Not even reaching marginal levels |
| | Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage. | High | Significant | Basic | Not even reaching marginal levels |
| | Capability to assess emerging issues related to the use of information and e-business systems. | High | Significant | 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.)*

Information Systems (IS), IS Capabilities, IS Infrastructure, Organizational Applications, Organizational Complements, Porter's Competitive Forces Model, The Value Chain, Generic Business Strategies, Electronic Business (e-Business), Internet, e-Business Models, B2C e-business, B2B e-business, C2C e-business, Enterprise Systems, Customer Relation Management Systems, Supply Chain Management Systems, IS Ethics, IS Privacy, and IS Security, Emerging Topics (e.g. Cloud computing, Social media and networks, Business intelligence and analytics, etc.).

## 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.)*

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|---|---|
| 1. | Valacich, J. & Schneider, C., Information Systems Today: Managing in the Digital World, Pearson, 9 edition (January 9, 2015) |

### 2.2 Additional Readings

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

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| 1. | Nil |