

# IS5313: FOUNDATIONS OF INFORMATION AND ELECTRONIC BUSINESS SYSTEMS

---

## Effective Term

Semester B 2024/25

## Part I Course Overview

### Course Title

Foundations of Information and Electronic Business Systems

### Subject Code

IS - Information Systems

### Course Number

5313

### Academic Unit

Information Systems (IS)

### College/School

College of Business (CB)

### Course Duration

One Semester

### Credit Units

3

### Level

P5, P6 - Postgraduate Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Nil

### Precursors

Nil

### Equivalent Courses

Nil

### Exclusive Courses

Nil

## Part II Course Details

### 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.

#### Course Intended Learning Outcomes (CILOs)

CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1 Conduct environmental and internal analyses to identify the needs for information and electronic business systems.	25	x	x	
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	x	x	
4 Assess emerging issues related to the use of information and e-business systems.	15	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 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.	1, 2, 3, 4
2	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.	1, 2, 3, 4
3	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.	1, 2, 3, 4

**Assessment Tasks / Activities (ATs)**

ATs		CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Discussion and Participation 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.	1, 2, 3, 4	25	
2	Project 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.	1, 2, 3, 4	25	

**Continuous Assessment (%)**

50

**Examination (%)**

50

**Examination Duration (Hours)**

2

**Additional Information for ATs****Final Examination**

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.

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

AT1: Discussion and Participation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to explain the major types of information and e-business systems and their capabilities.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Capability to assess emerging issues related to the use of information and e-business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to explain the major types of information and e-business systems and their capabilities.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Capability to assess emerging issues related to the use of information and e-business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to explain the major types of information and e-business systems and their capabilities.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Capability to assess emerging issues related to the use of information and e-business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B, B-) Significant

**Fair**

(C+, C, C-) Moderate

**Marginal**

(D) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to explain the major types of information and e-business systems and their capabilities.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT1: Discussion and Participation (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Capability to assess emerging issues related to the use of information and e-business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to explain the major types of information and e-business systems and their capabilities.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT2: Project (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Capability to assess emerging issues related to the use of information and e-business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to conduct environmental and internal analyses to identify the needs for information and electronic business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to explain the major types of information and e-business systems and their capabilities.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Ability to explain in depth how organizations can strategically deploy information and e-business systems to achieve competitive advantage.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

---

**Assessment Task**

AT3: Final Examination (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**

Capability to assess emerging issues related to the use of information and e-business systems.

**Excellent**

(A+, A, A-) High

**Good**

(B+, B) Significant

**Marginal**

(B-, C+, C) Basic

**Failure**

(F) Not even reaching marginal levels

## Part III Other Information

**Keyword Syllabus**

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.).

**Reading List****Compulsory Readings**

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

**Additional Readings**

Title	
1	Nil