



# SYSTEMS OF INFORMATION TECHNOLOGY (SIT)

Period February– June 2024 –MAKSI FEB UGM Jogjakarta

## 1. General Course Information

### 1.1. Course Details

**Course Title:** Systems of Information Technology (SIT)

**Semester:** Semester 2, 2024

**Program: Location:** Maksi FEB Jogjakarta

### 1.2. Course Lecturer

Prof. Syaiful Ali, MIS., Ph.D. **Email:** [s.ali@ugm.ac.id](mailto:s.ali@ugm.ac.id)

## 2. Aims and Objectives

### 2.1. Course Aims

This course is designed to cover a broad range of information technology concepts which will allow you to gain insight knowledge about information systems, their technologies, applications, development and ways to manage them. This knowledge is absolutely mandatory for you as a potential manager in this information era. Today's managers are not only required to be computer literate, but be information systems literate as well.

### 2.2. Course Objectives

After the completion of this course students should be able to:

1. Understand the basic concepts of a system, information and an information system as a general, so that you can apply this information system to the area in your responsibility.
2. Understand the components of an IT system infrastructure and be familiar with alternative approaches for providing and managing this infrastructure.
3. Be prepared to manage IT for one or more business areas.
4. Be able to identify ways to use IT.
5. Be able to choose among different ways to acquire a new system based upon the type of application and the technological and organizational environment.
6. Be able to guide the development or purchase of a new system that is effective, reliable and secure.
7. Be able to effectively partner with IS specialist both internal and external to the organization.
8. Understand the need for organizations to develop an information vision, and IT architecture, and strategic and operational IT plans and be able to participate in these processes.
9. Be able to manage IT ethically, politically and socially.
10. Be able to manage people's behaviour to use IT successfully.
11. Be able to manage and govern IT for the benefits of organizations.

### Learning Goals/Objectives

The completion of this subject will contribute to the following learning goals/objectives:

Learning Goals		Learning Objectives		High	Medium	Low
1	Students demonstrate the ability to	1.1	Demonstrate the ability to write highly organized reports.			

	communicate effectively	1.2	Demonstrate the ability to follow standard writing style.			
		1.3	Demonstrate the ability to write with consistent flow of thought.			
		1.4	Demonstrate the ability to use visual aids professionally.			
		1.5	Demonstrate the ability to present in an organized manner.			
		1.6	Demonstrate the ability to answer questions.			
2	Students demonstrate the ability to work in teams	2.1	Demonstrate a leadership role in managing the team.			
		2.2	Deliver strong efforts and contribute ideas for task completion.			
		2.3	Demonstrate the ability to appreciate opinions from different perspectives.			
3	Students are able to exercise professional ethics	3.1	Demonstrate the ability to identify ethical issues in the accounting profession.			
		3.2	Demonstrate the ability to apply the appropriate judgment in making ethical decisions.			
4	Students demonstrate the ability to analyse financial statements for decision making	4.1	Demonstrate the mastery of accounting concepts and theories.			
		4.2	Demonstrate comprehensive knowledge of accounting standards.			
		4.3	Demonstrate the ability to make accounting adjustment to conform with economic reality.			
		4.4	Demonstrate the ability to predict prospect based on fundamental data.			
		4.5	Demonstrate the ability to apply alternative valuation models.			
		4.6	Demonstrate the ability to identify accounting problems.			
		4.7	Demonstrate the ability to identify use relevant accounting numbers in making decisions.			
		4.8	Demonstrate the ability to solve accounting problems.			

### 3. Learning Resources

#### 3.1. Required Resources

*Text Book:*

- Efraim Turban, Carol Pollard, Gregory Wood. 2021. **Information Technology for Management: Driving Digital Transformation to Increase Local and Global Performance, Growth and Sustainability**, 12<sup>th</sup> Edition (T).

*Articles: TBA*

*Cases: TBA*

## Course Rules

### Academic Rules

1. Plagiarism and any kind of academic dishonesty will lead to a failure in completion of this course.
2. Prohibition in taking final exam will be given to students who failed to meet the minimum 75% online-class attendance.
3. Students must read the chapter assigned and are required to do and submit individual homework assigned and or group assignment as requested.

### Online Class Rules

Class rules are to be agreed upon by facilitator and students, consists of the followings:

1. Attendance  
Students' attendance will be recorded during the first 10 minutes of the online class and toward the end of the online classroom through Zoom meeting. Students who did not present during the recording times will be considered absent for the online class session.
2. Clothing  
Students are obligated to use appropriate clothing during the synchronous online class discussion.
3. Online class monitoring  
Both synchronous and asynchronous online class discussion will be monitored and logged for class internal control and grading purposes.

### 4. Learning Methods

The learning method based on *student centred learning* will be used in this course. Prior to the class meeting, students are asked to study course materials online where material will be provided in Sintesis and also *Google classroom* application. Students will be invited to join the *Google classroom Systems of Information Technology* course. The available materials must be studied in advance by students before coming to the session in class. In addition, students are asked to do assignments available on Google classroom and work on the assignments and submit them online via *Google classroom*. In class sessions, lecture materials which has been submitted on the *Google classroom*, will not be studied. The lecture sessions will be used to do individual and student groups assignments.

## 5. Teaching and Learning Activities

### 5.1. Learning Activities

There are 9 cases and 9 articles to be discussed along with course materials from the text book.

Week	Topic	Cases – Presenter	Articles - Presenter	Computer Lab Practices
1	Overview			
2	Digital Transformation Disrupts Companies, Competition, and Careers. <b>Ch. 1 (T)</b>			
3	Information Systems, IT Infrastructure, and the Cloud <b>Ch. 2 (T)</b>		<b>Article #1</b> <u>Presenter:</u> Kel. 5  <u>Discussant:</u> Kel. 9  <b>Article#2</b> <u>Presenter:</u> Kel. 6  <u>Discussant:</u> Kel. 8	

4	Data Management, Data Warehouses, and Data Governance <b>Ch. 3 (T)</b>  Business Intelligence, Data Science, and Data Analytics <b>Ch 6 (T)</b>	<b>Case #1:</b> <u>Presenter:</u> Kel. 1  <u>Discussant:</u> Kel. 9		
5	Data Analytics Practices I			Computer Lab
6	Data Analytics Practices II			Computer Lab
7	Networks, the Internet of Things (IoT), and Edge Computing. <b>Ch. 4 (T)</b> ,	<b>Case #2:</b> <u>Presenter:</u> Kel. 2  <u>Discussant:</u> Kel. 8	<b>Article#3</b> <u>Presenter:</u> Kel. 7  <u>Discussant:</u> Kel. 6	
<b>MID-TERM EXAM</b>				
8	Data Privacy and Cyber Security  IT Ethics and Local and Global Sustainability <b>Ch. 5, 14 (T)</b>	<b>Case #3</b> <u>Presenter:</u> Kel. 3  <u>Discussant:</u> Kel. 7	<b>Article#4</b> <u>Presenter:</u> Kel. 8  <u>Discussant:</u> Kel. 5	
9	Omnichannel Retailing, E-Commerce and Mobile Commerce Technology <b>Ch 8 (T)</b>	<b>Case #4</b> <u>Presenter:</u> Kel. 4  <u>Discussant:</u> Kel. 6	<b>Article#5</b> <u>Presenter:</u> Kel. 3  <u>Discussant:</u> Kel. 7	
10	Functional Business Systems <b>Ch. 9 (T)</b>  Enterprise Systems <b>Ch. 10 (T)</b>	<b>Case #5</b> <u>Presenter:</u> Kel. 5  <u>Discussant:</u> Kel. 1	<b>Article#6</b> <u>Presenter:</u> Kel. 2  <u>Discussant:</u> Kel. 4	
11	Behavioural Information Systems and adoption of IS	<b>Case #6</b> <u>Presenter:</u> Kel. 6  <u>Discussant:</u> Kel. 2  <b>Case #7</b> <u>Presenter:</u> Kel. 7  <u>Discussant:</u> Kel. 3	<b>Article #7</b> <u>Presenter:</u> Kel. 9  <u>Discussant:</u> Kel. 1	
12	Artificial Intelligence, Robotics, and Quantum Computing Technology <b>Ch. 11 (T)</b>  IT Strategy, Sourcing, and Strategic Technology Trends <b>Ch. 12 (T)</b>		<b>Article #8</b> <u>Presenter:</u> Kel. 1  <u>Discussant:</u> Kel. 2  <b>Article #9</b>	

			<u>Presenter:</u> Kel. 4	
			<u>Discussant:</u> Kel. 3	
13	IT Investment Planning and Decision Making	<b>Case #8</b> <u>Presenter:</u> Kel. 8  <u>Discussant:</u> Kel. 4  <b>Case #9</b> <u>Presenter:</u> Kel. 9  <u>Discussant:</u> Kel. 5		
14	System Development, IT Service Management and Project, Program and Portfolio Management. <b>Ch. 13 (T)</b>  <i>2 Big Paper Presentations (optional)</i>			
	<b>FINAL EXAM</b>			

**Notes:**

The time for a case study or article presentation is 20 minutes (13 minutes of presentation and 7 minutes of question and answer). The presentation will use power point slides and be recorded. All group members must participate in the presentation.

**5.2. Consultation**

Consultation times will be discussed with students at the first meeting of the course.

**6. Assessment**

**6.1. Assessment Summary**

<b>Assessment Task</b>	<b>Time (Due date)</b>	<b>Weighting</b>
Course summary tasks– <i>Google classroom</i> – individual (10 summary tasks)	Prior to the class meeting	10%
Discussion Questions/Lab Sessions/Quizzes- Individual	During class meeting	15%
Mid-term Exam		20%
Case Study/Paper Presentation - Group	During class meeting	12,5%
In Class Project - Group	During class meeting	12,5%
Big Paper Assignment – Individual	Final exam date	10%
Final Exam		20%

## 6.2. Course Grading

Grade	Cut Off % Range
E	0-29
D	30-34
D+	35-39
C/D	40-44
C-	45-49
C	50-54
C+	55-59

Grade	Cut Off % Range
B/C	60-64
B-	65-69
B	70-74
B+	75-79
A/B	80-84
A-	85-89
A	90-100

### Academic Integrity

Academic integrity forms a fundamental bond of trust between colleagues, peers, lecturers, and students, and it underlies all genuine learning. There is no tolerance for plagiarism or academic dishonesty in any form, including, but not limited to, viewing the exams of others, sharing answers with others, using books or notes while taking the exam, copying answers or papers, or passing off someone else's work as one's own. A breach of ethics or act of dishonesty can result in A FAILURE OF AN ENTIRE COURSE (a grade of "E").

The Department of Accounting FEB UGM does not tolerate academic dishonesty. All violation will be recorded in the FEB systems. All of assignments and homework (if any) must be submitted both softcopy and hardcopy, unless being asked differently. The softcopy will be checked using TURNITIN. Please refer to <https://paleffi.feb.ugm.ac.id/images/test/01-160801080151.pdf> for anti-plagiarism guidelines. For the first offense, a student who violates the academic integrity will receive a zero point for the assignment (i.e. homework, quiz or exam). For the second offense, the student will receive a grade of "E" in the course where the student commits the second. For the third offense, the Department will recommend that the student be dismissed from the University.