Systems And Information Technology

Module name	Systems And Information Technology	
Module level	Undergraduate	
Code	IF221104	
Courses (if applicable)	Systems And Information Technology	
Semester	1	
Lecturer	Henni Endah Wahanani, S.T, M.Kom (PIC) Muhammad Muharrom A.H, S.Kom., M.Kom. Made Hanindia Prami S, S.Kom, M.Cs. Retno Mumpuni, S.Kom, M.Sc	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program; compulsory; 1st semester	
Type of teaching, contact hours	Lectures, < 60 students,	
Teaching Methods	discussion group, simulation, case study, collaborative learning, cooperative learning	
Workload	1. Lectures: 3 sks x 50 = 150 minutes (2 hours 30 minutes) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Private study: 3 x 60 = 180 minutes (3 hours) per week	
Credit points	3 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.	
Mandatory prerequisites	-	
Courses description	In this course, students learn The basic concepts and developments related to information systems and technology encompass computer hardware and software, computer operating systems, as well as management within organizations and their governance, including Supply Chain Management (SCM), Enterprise Resource Planning (ERP), Customer Relationship Management (CRM), Decision Support Systems (DSS), E-Business, Security, and Audit.	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	
	CO1 Accuracy in explaining and expressing opinions on fundamental concepts, historical development, security concepts, as well as management and audit theories within information systems and technology	PLO5, PLO7
Content	● Definitions and roles of information systems and technology; ● History and development of computer hardware and software; ● Basic concepts and development of computer operating systems; Basic concepts and development of information systems and technology; ● Supply Chain Management (SCM) concept; ● Enterprise Resource Planning (ERP) concept; ● Customer Relationship Management (CRM) concept; ● Decision Support Systems (DSS) concept;	

	• E-Business concept and development; • Basic concepts of security and control in information systems and technology; Technology audit and information system concepts.
Media employed	LCD, whiteboard, websites, books (as references), online meeting, etc.
Assessments and Evaluation	One written Midterm assessment (60 minutes) and one final oral exam (30 minutes), two short computer-based quizzes, takehome written assignments
Study and examination requirements and forms of examination	The final grade in the module is composed of: • Two short computer-based quizzes: 15% x 2 = 30% • Take-home written assignments: 15% • Written Midterm assessment: 25% • Final oral exam: 30% Students must have a final grade of 55.6% or higher to pass.
Reading List	• J. Vince, Foundation Mathematics for Computer Science: A Visual Approach, 4th ed. Springer International Publishing, 2024. • R. Larson, B. Edwards, Calculus, 12th Edition. Cengage Learning, 2023. • Kumar, Gulshan, Introduction to information technology. Toronto Academic Press, 2024. ISBN: 9781774697078. [Online]. Available: https://portal.igpublish.com/iglibrary/obj/ARCLER0001512?searchid=1754987246860gRMPnDBb872jVfSOCaaAj