

Information Technology Architecture

Module name	Information Technology Architecture	
Module level	Undergraduate	
Code	IF221212	
Courses (if applicable)	Information Technology Architecture	
Semester	5/6	
Lecturer	Yisti Vita Via, S.ST, M.Kom (PIC) Firza Prima Aditiawan, S.Kom, M.TI	
Language	Bahasa Indonesia and English	
Relation to curriculum	Elective; 5th or 6th semester	
Type of teaching, contact hours	Lectures, < 60 students,	
Teaching Methods	project-based learning, problem-based 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	Software Engineering	
Courses description	This course introduces the principles and concepts of information technology architecture that involve various aspects, both those acquired in previous semesters and the latest ones, especially standardized information technology architecture.	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	
	CO1 Students are able to explain terminologies in Information Architecture. (C2, C3)	PLO9,PLO10
	CO2 Students are able to understand the concept of Information Technology design in KAMI index. (C2, C4)	PLO9,PLO10
	CO3 Students are able to design and implement architecture for Information Technology. (C3, C4)	PLO9,PLO10
Content	The content covered in this course involves Information Technology Security Management, which encompasses Information Security Governance, Information Security Risk Management, Information Security Framework, Information Asset Management, Information Technology and Information Security, and the Role of Information Technology in maintaining the level of Information Technology service. This course aims to support the information technology security management capabilities of an organization or company with a business strategy.	
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, take home written assignments	
Study and examination	The final grade in the module is composed of: • Two short computer-based quizzes: 15% x 2 = 30%	

requirements and forms of examination	• 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	• Richards, M., & Ford, N. (2020). <i>Fundamentals of Software Architecture: An Engineering Approach</i>. O'Reilly Media. • Laudon, K. C., & Laudon, J. P. (2021). <i>Management Information Systems: Managing the Digital Firm</i> (17th ed.). Pearson. • Torkar, R., & Vakkuri, J. (2022). <i>IT Infrastructure and Its Management: A Practical Guide for Professionals</i>. Springer. • Bens, J., & Beukel, L. (2023). <i>Cloud Native Infrastructure: A Guide to Modern Infrastructure</i>. O'Reilly Media. • D'Souza, D. S. (2021). <i>Information Technology Infrastructure: Concepts and Management</i> (2nd ed.). Cengage Learning.