

Enterprise Resource Planning Application

Module name	Enterprise Resource Planning Application	
Module level	Undergraduate	
Code	IF221203	
Courses (if applicable)	Enterprise Resource Planning Application	
Semester	5/6	
Lecturer	Fetty Tri Anggraeny, S.Kom, M.Kom (PIC) Dr. I Gede Susrama, S.T, M.Kom	
Language	Bahasa Indonesia and English	
Relation to curriculum	Elective ; 5th/6th semester	
Type of teaching, contact hours	Lectures, < 60 students,	
Teaching Methods	simulation, case study, 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	The ERP Applications course is an academic curriculum that comprehensively explores the knowledge related to the concept of integrating corporate resources within a unified system. The integration of enterprise resource management aims to achieve a high degree of efficiency and streamline the decision-making process. This course encompasses subjects such as the evolution of the definition and scope of Enterprise Resource Planning (ERP), the technological aspects of ERP, ERP modules, ERP implementation, maintenance, and ERP software.	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	
	CO1 Students are proficient in elucidating the definitions and terminologies within ERP applications. They possess a thorough understanding of Business Functions and Business Processes within ERP Applications and can articulate their development accurately. (C2, A2)	PLO9,PLO10
	CO2 Students exhibit a precise comprehension of the theoretical and practical concepts of modules in ERP applications. (C3, P4)	PLO9,PLO10
	CO3 Students are proficient in designing and executing business processes within ERP Applications. (C5, P3)	PLO9,PLO10
Content	Definition of ERP Applications and the explanation of associated terminologies; Fundamental concepts of ERP Applications; Modules within ERP Applications; Functional areas of operation; Business processes;	

	ERP software; Sales and Distribution, Production, and Supply Chain Management (SCM), Accounting, and Human Resources Processes (HR) within ERP Applications; Concepts of Process Modeling, Process Improvement, and their application within ERP Applications.
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	<p>The final grade in the module is composed of:</p> <ul style="list-style-type: none"> • Two short computer-based quizzes: $15\% \times 2 = 30\%$ • Take-home written assignments : 15% • Written Midterm assessment: 25% • Final oral exam: 30% <p>Students must have a final grade of 55.6% or higher to pass.</p>
Reading List	<ul style="list-style-type: none"> • G. Blokdyk, <i>Enterprise Resource Planning: A Complete Guide</i>, 2020 ed. Emereo Publishing, 2020. • O. J. Sagegg and E. Alfnes, <i>ERP Systems for Manufacturing Supply Chains: Applications, Configuration, and Performance</i>. Auerbach Publications, 2020. • A. Al-Marri, M. Al-Ali, M. Alzarooni, A. Al-Teneiji, K. Al-Ali, and Z. Bahroun, "Enterprise Resource Planning Systems for Health, Safety, and Environment Management: Analyzing Critical Success Factors," <i>Sustainability</i>, vol. 17, no. 7, 2025.