

HANDBOOK

BACHELOR OF INFORMATICS PROGRAM
DEPARTMENT OF INFORMATICS
FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY
INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Module name	Database Management
Module level	Undergraduate
Code	IF184404
Courses (if applicable)	Database Management
Semester	4
Contact person	
Lecturer	Kelly Rossa Sungkono, S.Kom., M.Kom Dwi Sunaryono, S,Kom., M.Kom Sarwosri, S.Kom. M.T Adhatus Solichah Ahmadiyah, S.Kom., M.Sc. Nurul Fajrin Ariyani, S.Kom., M.Sc.
Language	Bahasa Indonesia dan English
Relation to curriculum	1. Undergraduate degree program; mandatory; 4 th semester. 2. International undergraduate program; mandatory; 4 th semester.
Type of teaching, contact hours	1. Undergraduate degree program: lectures, < 60 students, 2. International undergraduate program: lectures, < 40 students
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	A student must have attended at least 80% of the lectures to sit in the exams.
regulations	

Mandatory prerequisites	Database System	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	
	CO1 The students are able to model databases in various industrial fields.	
	CO2 The students are able to handle large-scale data problems.	
	CO3 The students are able to model active databases integrated with business rules.	
Content	<p>Knowledge:</p> <p>Mastering the concepts and principles of capture, processing and information storage in various forms.</p> <p>Specific Skill:</p> <p>Able to collect, digitize, and process data into new useful information using effective and efficient data storage and modelling.</p>	
Study and examination requirements and forms of examination	Mid-terms examination and Final examination.	
Media employed	LCD, whiteboard, websites, books (as references), etc.	
Assessments and Evaluation		

Reading List	<ul style="list-style-type: none">• Avi Silberschatz, "Database System Concepts", 5th edition, 2002.• Morgan Kaufman, "Advanced Database System", Morgan Kaufman Publisher Inc., 1993.• Howe, David, "Data Analysis for Database Design", 3th edition. Butterworth-Heineman, 2001.• Ramakrishnan, Raghu, Gehrke, Johannes. "Database Management Systems", 3th ed., New York: The McGraw-Hill Companies Inc., 2003.
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