

HANDBOOK

BACHELOR OF INFORMATICS PROGRAM

DEPARTMENT OF INFORMATICS

FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Module name	Distributed System
Module level	Undergraduate
Code	IF184944
Courses (if applicable)	Distributed System
Semester	7
Contact person	-
Lecturer	Ary Mazharuddin, PhD
Language	Bahasa Indonesia and English
Relation to curriculum	1. Undergraduate degree program; optional; 7 th semester. 2. International undergraduate program; optional; 7 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 = 240 minutes (3 hours) per week. 3. Private study: 3 x 60 = 240 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	Computer Networks
	After completing this module, a student is expected to:

Learning outcomes and their corresponding PLOs	CO1 Students know and apply concepts and algorithms in distributed systems. Being able to apply the concept to multiple machines so that they connect and work together on a particular problem.	
Content	<p>Knowledge:</p> <ul style="list-style-type: none"> • Mastering the concepts and principles of architecture, systems and fundamentals of computer networks based on logic systems • Master the theoretical concepts and principles of network-based computing and the latest technologies related to it, in the fields of distributed computing and mobile computing, multimedia computing, high-performance computing and information and network security <p>Specific Skill:</p> <ul style="list-style-type: none"> • Able to apply computer architecture, operating system working principles to design, implement and manage network systems that have high performance, secure, and efficient; • Capable to apply the concept of network-based computing, parallel computing, distributed computing to analyze and design algorithms for solving computing problems in various fields; 	
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	Coulouris, G., Dollimore, J., Kindberg, T., Blair, G., "Distributed Systems: Concepts and Design 5th Edition", Addison-Wesley, 2011