HANDBOOK

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

Module name	Cloud Computing
Module level	Undergraduate
Code	IF184942
Courses (if applicable)	Cloud Computing
Semester	7
Contact person	-
Lecturer	Dr. Eng. Royyana Muslim I, S.Kom, M.Kom Bagus Jati Santoso, S.Kom., Ph.D.
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	 Undergraduate degree program: lectures, < 60 students, International undergraduate program: lectures, < 40 students
Workload	 Lectures: 3 x 50 = 150 minutes (2 hours 30 minutes) per week. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 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		
	After completing this module, a student is expected to:	

Learning outcomes and their corresponding	CO1 Students can explain and understand the characteristics of cloud computing.	
PLOs	CO2 Students can explain and apply the concept of multitenancy in cloud computing.	
	CO3 Students can explain and apply delivery models in cloud computing.	
	CO4 Students can apply cloud computing technology on a small scale.	
	CO5 Students are able to explain the supporting aspects of cloud computing technology as well as security mechanisms.	
	CO6 Students are able to explain cloud computing architecture.	
Content	Knowledge:	
	 Mastering the concepts and principles of architecture, so the basics of computer networks based on logic systems. Master the theoretical concepts and principles of networks computing and the latest technologies related to it, in the distributed computing and mobile computing, multimed computing, high-performance computing and information network security. Specific Skill: 	s. ork-based ne fields of dia
	 Able to apply computer architecture, operating system principles to design, implement and manage network sy have high performance, are safe, and efficient. Able to apply network-based computing concepts, paracomputing, distributed computing to analyze and design computational problem-solving algorithms in various field. 	rstems that
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	Thomas Erl et al, "Cloud Computing, Concepts, Technology. And Architecture". Prentice Hall.
	Hill et al, "Guide to Cloud Computing, Principles and Practice". Springer.Jeniq-Neng Hwang, "Multimedia Networking From Theory to Practice", Cambridge, 2013. ISBN 9780521882040.
	Ze-Nian Li and Mark. S. Drew, "Fundamentals of Multimedia", Prentice-Hall, 2003. ISBN 0130618721.
	W.C. Hardy,"QoS Measurement and Evaluation of Telecommunications Quality of Service", Wiley, 2001. ISBN 0470845910.