HANDBOOK

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

Module name	**System and Network Security Design**
Module level	Undergraduate
Code	IF184913
Courses (if applicable)	**System and Network Security Design**
Semester	8
Contact person	
Lecturer	Bagus Jati S, PhD Ir. Muchammad Husni, M.Kom.
Language	Bahasa Indonesia dan English
Relation to curriculum	1. Undergraduate degree program; optional; 8th semester. 2. International undergraduate program; optional; 8th 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	Information and Network Security	
	After completing this module, a student is expected to:	

Learning outcomes and their corresponding PLOs	**CO1** The students are able to design computer systems and networks with the smallest possible security risk. Based on these concepts, students are able to apply them, both individually and in groups in teams	
Content	Knowledge: Mastering 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 Specific Skill: Able to apply the concept of network-based computing, parallel computing, distributed computing to analyze and design computational problem solving algorithms 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	• Intrusion Detection Networks: A Key to Collaborative Security by Carol Fung and Raouf Boutaba (Nov 19, 2013) • Cryptography and Network Security: Principles and Practice (6th Edition) by William Stallings (Mar 16, 2013). • Network and System Security, Second Edition by John R. Vacca (Sep 23, 2013). • Network Security Essentials: Applications and Standards (4th Edition) by William Stallings (Mar 22, 2010). • Information Security The Complete Reference, Second Edition by Mark Rhodes-Ousley (Apr 3, 2013)