HANDBOOK

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

Module name	**Internetworks Technology**
Module level	Undergraduate
Code	IF184702
Courses (if applicable)	**Internetworks Technology**
Semester	7
Contact person	-
Lecturer	MH Bagus Jati Santoso, S.Kom., Ph.D.
Language	Bahasa Indonesia and English
Relation to curriculum	1. Undergraduate degree program; optional; 7th semester. 2. International undergraduate program; optional; 7th semester.
Type of teaching, contact hours	1. Undergraduate degree program: lectures, < 60 students, 2. International undergraduate program: lectures, < 40 students
Workload	1. Lectures: 3 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	-	
	After completing this module, a student is expected to:	

Learning outcomes and their corresponding PLOs	**CO1** Mahasiswa mampu mengimplementasikan static routing pada jaringan komputer.	
	CO2 Mahasiswa mampu mengimplementasikan dynamic routing pada jaringan komputer	
Content	Knowledge: • Mastering the concepts and principles of architecture, systems and the basics 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. Specific Skill: • Able to apply computer architecture, operating system working principles to design, implement and manage network systems that have high performance, are safe, and efficient. • 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	Todd Lammle, CCNA Study Guide, Third Edition, 2002. Deepankan Medhi, Karthikeyan Ramasamy, Network Routing Algorithms, Protocols, and Architectures, 2007.