

HANDBOOK

BACHELOR OF INFORMATICS PROGRAM

DEPARTMENT OF INFORMATICS

FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Module name	Computer Networks
Module level	Undergraduate
Code	IF184505
Courses (if applicable)	Computer Networks
Semester	Fall (Gasal)
Contact person	Wahyu Suadi, S.Kom, M.Kom
Lecturer	Prof. Ir. Supeno Djanali, MSc, Ph.D. Dr. Eng. Royyana Muslim I, S.Kom, M.Kom Dr. Eng. Radityo Anggoro, S.Kom, M.Eng.Sc
Language	Bahasa Indonesia and English
Relation to curriculum	1. Undergraduate degree program; mandatory; 3 rd , 5 th , or 7 th semester. 2. International undergraduate program; mandatory; 3 rd , 5 th , or 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 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. 4. Practical exercises 1 x 60 = 60 minutes per week (5 case studies)
Credit points	4 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	-	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	
	Ini diisi CPMK	Ini diisi nomer PLO yang relevan
	CPMK 1 – bla bla bla	PLO 2
	CPMK 2 – bla bla bla	PLO 2
	CPMK 3 – bla bla bla	PLO 7
	CPMK 4 – bla bla bla	PLO 2
Content	<p>Knowledge:</p> <p>Mastering concept and theory of architecture, system and network computer principles based on logic;</p> <p>Specific Skill:</p> <p>Able to implement computer architecture and principles of operating system tasks to design, implement and manage network system with high performance, safety, and effecient</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	<p>CO1: Problem 1 in mid-term exam (5%) and exercise 1 (5%) - 10%</p> <p>CO2: Problem 2 in mid-term exam (5%) and exercise 2 (5%) -</p>	

	<p>10%</p> <p>CO3: Problem 3 in mid-term exam (5%); problem 4 in mid-term exam (5%); assignment 1: make an algorithm and computer program (5%); and exercise 3 (5%) - 20%</p> <p>CO4: Problem 5 in mid-term exam (5%); problem 1 in final exam (5%) and exercise 4 (5%) - 15%</p> <p>CO5: Problem 2 in final exam (5%); assignment 2: make a function and recursive (5%); and exercise 5 (5%) - 15%</p> <p>CO6: Problem 3 in final exam (5%) and exercise 6 (5%) - 10%</p> <p>CO7: Problem 4 in final exam (5%) and exercise 7 (5%) - 10%</p> <p>CO8: Problem 5 in final exam (5%) and assignment 3: make a program based on a real-life problem (5%) - 10%</p>
Reading List	<p>James F. Kurose and Keith W. Ross, Komputer Networking: A Top-Down Approach, 7th Edition, Addison Wesley, 2013.</p> <p>Andrew S. Tanenbaum and David J. Etherall, Computer Networks, 5th Edition, Prentice Hall, 2011.</p>