



MODULE HANDBOOK DESCRIPTION

Module designation	Computer Networks Laboratory	
Code	FBD3214	
Semester(s) in which the module is taught	6/third year	
Person responsible for the module	Lalu Ahmad Syamsul Irfan Akbar, ST.M.Eng	
Language	Indonesian	
Relation to curriculum	Concentration Elective for Computer Engineering	
Teaching methods	Contextual Instruction (CI)	
Workload (incl. contact hours, self-study hours)	Contact minutes every week, each week of the 16 weeks/semester : <ul style="list-style-type: none"> ● Practice : 1 x 50 minutes ● Data analysis : 1 x 60 minutes ● Writing report : 1 x 60 minutes. Total study hours = 2 hours 50 minutes/week	
Credit points	1 (~ 1,6 ECTS)	
Required and recommended prerequisites for joining the module	- (FBD3208) Data Communication and Computer Networks	
Module objectives/intended learning outcomes	1. Students are able to analyze and design network topology models along with network hardware requirements, and design the required IP address allocations.	PLO3
	2. Students are able to install a server operating system along with some basic requirements on a server, such as a web server, file server and establishing client-server communication.	PLO4
	3. Students are able to implement routers to build WAN network prototypes and create VLANs in a network topology.	PLO5

Content	<ol style="list-style-type: none"> 1. Installation of network devices and VLSM 2. Network Operating System 3. Remote access and file transfer 4. Wireless Networks 5. Client Server Communication 6. Implementation of Static Routing on Routers (Mikrotik) 7. Implementation of Virtual LANs
Examination forms	<ol style="list-style-type: none"> 1. Pre-test 2. Practice skills 3. Practice report 4. Response
Study and examination requirements	<p>The final grade in the module is composed of:</p> <ol style="list-style-type: none"> a. Pre-test and practice skills = 20% b. Practice report and response = 80% <p>Students must have a final grade of 65% or higher to pass</p>
Reading list	<ol style="list-style-type: none"> 1. Lammle.Todd, 2007, "CCNA Study Guide Sixth Edition", Wiley Publishing Inc, Canada