



UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

Jalan Colombo Nomor 1 Yogyakarta 55281
Telepon(0274)565411 Pesawat 217, (0274)565411(TU),fax (0274)548203
Laman :fmipa.uny.ac.id, E-mail :humas_fmipa@uny.ac.id

Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Computer Network
Module level,if applicable:	Undergraduate
Code:	MAT6360
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	6 th
Module coordinator:	Nur Hadi Waryanto, M.Eng
Lecturer(s):	1. Nur Hadi Waryanto, M.Eng 2. Bambang SHM, M.Kom
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hoursperweekduring the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Information and Communication Technology (MAT6204)
Course outcomes:	After taking this course the students have ability to: CO1. demonstrate collaborative attitude and independence to do individual or group assignments CO2. Communicate ideas in solving mathematical problems in writing or verbally

	CO3. understand the data communication, computer network, LAN, and internet CO4. Setting and Applying LAN																				
Content:	The course contains discussion on hardware and software components in the development of computer networks. The main material covered includes: basic concepts of computer networks, data transmission and communication protocols, computer network architectures, computer network components / hardware, computer network topology and infrastructure, Local Area Networks, TCP / IP, Subnetting, Routing, Network Security.																				
Study/exam achievements:	<p>CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO 2</td> <td>presentation</td> <td>Observation</td> <td>10%</td> </tr> <tr> <td></td> <td>CO 3, CO 4, CO 5,</td> <td>a. Individual assessment b. Group assessment c. Quiz d. Mid exam e. Final exam</td> <td>Written test</td> <td>10% 10% 20% 25% 25%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO 2	presentation	Observation	10%		CO 3, CO 4, CO 5,	a. Individual assessment b. Group assessment c. Quiz d. Mid exam e. Final exam	Written test	10% 10% 20% 25% 25%	Total				100%
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Forms of media:	Board, LCD Projector, Laptop/Computer																				
Literature:	<ol style="list-style-type: none"> 1. Tannenbaum, Jaringan Komputer Jilid 1, Prentice Hall , A.S. 1996 2. Tannenbaum, Jaringan Komputer Jilid 2, Prentice Hall , A.S. 1996 																				

