



UNIVERSITAS NEGERI YOGYAKARTA
POSTGRADUATE DEPARTMENT OF ELECTRONICS AND
INFORMATICS ENGINEERING EDUCATION

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**Master of Education in Electronics and Informatics
Engineering**

MODULE HANDBOOK

Module name:	Computer Network Management
Module level,if applicable:	Postgraduate
Code:	PTI 8213
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	1 st
Module coordinator:	Dr. Ir. Drs. Eko Marpanaji, M.T.
Lecturer(s):	Dr. Ir. Drs. Eko Marpanaji, M.T.
Language:	Bahasa Indonesia
Classification within the curriculum:	Concentration Courses
Teaching format / class hoursperweekduring the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self study per week for 16 weeks.
Creditpoints:	2
Prerequisites course(s):	-
Course outcomes:	After taking this course students have the ability to: CO1. Understand the concepts of network management and administration. CO2. Create modeling of network administration tools and computer network administration systems. CO3. Analyze DHCP Server, NFS Server, DNS Server. CO4. Perform web service management and internet network management. CO5. Implement network management and web-based management systems and tools.

<p>Content:</p>	<p>This course provides an understanding of everything that is needed by administrators in carrying out computer network administration. This course material provides an understanding of computer network equipment management and an understanding of further network management concepts. Study materials / Topics: Introduction to Network Management and Administration; Network Administration Tools; Computer Network Administration Operating System; File System; DHCP Server; NFS Server; DNS Server; Web service management; Internet network management; Network Management Tools and Systems; Network Management Tools and Systems; Web-Based Management.</p>																									
<p>Study/exam achievements:</p>	<p>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" data-bbox="602 984 1393 1381"> <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 1 - CO2</td> <td>Book chapter and scientific papers</td> <td>Discussion</td> <td>10%</td> </tr> <tr> <td>2</td> <td>CO 3</td> <td>Case studies</td> <td>Independent assignment</td> <td>30%</td> </tr> <tr> <td>3</td> <td>CO 4 – CO5</td> <td>Book chapter and scientific papers</td> <td>Assignment</td> <td>20%</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO 1 - CO2	Book chapter and scientific papers	Discussion	10%	2	CO 3	Case studies	Independent assignment	30%	3	CO 4 – CO5	Book chapter and scientific papers	Assignment	20%	Total				100%
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<p>Forms of media:</p>	<p>Board, LCD Projector, Laptop/Computer</p>																									
<p>Literature:</p>	<ol style="list-style-type: none"> 1. Ebtekar, Ali, and Daniel Robert Garrison. "Dynamic troubleshooting workspaces for cloud and network management systems." U.S. Patent No. 10,708,342. 7 Jul. 2020. 2. Gerace, Thomas A., and Russell G. Barbour. "User-driven media system in a computer network." U.S. Patent No. 10,740,722. 11 Aug. 2020. 3. ELLSWORTH, Joseph L., et al. Forward-based resource delivery network management techniques. U.S. Patent Application No 16/221,143, 2019. 4. BEGA, Dario, et al. DeepCog: Cognitive network management in sliced 5G networks with deep learning. In: IEEE INFOCOM 2019-IEEE Conference on Computer Communications. IEEE, 2019. p. 280-288. 5. Mousa, Mohammad, Ayman M. Bahaa-Eldin, and Mohamed Ali Sobh. "Autonomic management of MPLS backbone networks using SDNs." <i>2017 12th International Conference on</i> 																									

