

Universitas Negeri Surabaya Faculty of Engineering, Bachelor of Information Systems Study Program

Document Code

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Courses				cc	DDE				Co	ourse F	amily	'	Cred	lit We	ight	SEN	MESTER	Compilation Date
Compute	er Ne	twork Governand	e	573	20103	8057						,	T=3	P=0	ECTS=4.77	'	4	July 18, 2024
AUTHOR	RIZAT	TON		SP	Deve	elope	r				Cou	urse	Clu	ster C	oordinator	Stu	dy Progra ordinator	am
																l Ka		Nuryana, S.T., Kom.
Learning model	J	Project Based L	earni	ng														
Program		PLO study pro	gram	that	t is ch	harge	ed to	the o	cours	е								
Learning Outcom	es es	Program Object	tives	(PC))													
(PLO)		PLO-PO Matrix																
					P.O													
		PO Matrix at th	e en	d of	each	learı	ning s	stage	e (Sub	o-PO)								
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Short Course Descript	tion	This course stud User and Group																
Referen	ces	Main :																
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		Supporters:																
Support lecturer		Dodik Arwin Derr I Gusti Lanang P I Kadek Dwi Nury Rahadian Bisma	utra E /ana,	Eka Pi S.T.,	rismaı M.Ko	na, S m.		., M.K	Com.									
Week-	eac				Εν	valua	tion				Stu	earn ıden	ning : it As:	arnin metho signm ted tir	ods, ients,	ma	earning aterials [ferences	Assessment Weight (%)
	(Su	b-PO)		Indic	ator		Crite	ria &	Form		fline (fline)		0	nline	(online)		1	
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1	Students are able to understand the concept of network management in terms of definition and function	1.Explains Network performance definition. 2.Describes the flow process components 3.Examining the functions and roles of network	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50		0%
2	Students are able to understand IP Management, Subnetting (CIDR) and IPv6 concepts	1.Explain the concept of IP management. 2.Applying IP addressing to a computer network case study. 3.Applying subnetting to a case study. 4.Explain and design addressing with the CIDR concept. 5.Explain addressing with the IPv6	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50		0%
3	Students are able to understand IP Management, Subnetting (CIDR) and IPv6 concepts	protocol 1.Explain the concept of IP management. 2.Applying IP addressing to a computer network case study. 3.Applying subnetting to a case study. 4.Explain and design addressing with the CIDR concept. 5.Explain addressing with the IPv6 protocol	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50		0%

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4	Understand how Routing works and apply static and dynamic routing configurations.	1.Explain the concept and function of routing 2.Describe how static and dynamic routing works 3.Explain the difference between static and dynamic routing 4.Implementing static routing configuration, with a case study 5.Implementing dynamic routing configuration with a case study	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50			0%
5	Understand how Routing works and apply static and dynamic routing configurations.	1.Explain the concept and function of routing 2.Describe how static and dynamic routing works 3.Explain the difference between static and dynamic routing 4.Implementing static routing configuration, with a case study 5.Implementing dynamic routing configuration with a case study	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50			0%
6	Understand file management concepts and implement file management	1.Explains the concept of file management 2.Identify user access rights 3.Implement management and file sharing in Windows 4.Implementing file management and sharing using Samba Linux	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50			0%

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7	Understand file management concepts and implement file management	1.Explains the concept of file management 2.Identify user access rights 3.Implement management and file sharing in Windows 4.Implementing file management and sharing using Samba Linux	Approach: Scientific Model: Cooperative Method: Discussion, Presentation 2 X 50		0%
8	Sub-Summative Exam	Sub-Summative Exam	2 X 50		0%
9	Students understand the needs in network design	Students can mention the need for network devices. Students can state network specification requirements. Students can mention network application needs.	Approach: Scientific Model: Project- based learning Method: Discussion, Presentation 2 X 50		0%
10	Students are able to understand the stages of network requirements analysis	1. Students explain the process of capturing user needs. 2. Students state the content of the requirements specification document. 3. Students can carry out the needs screening process.	Approach: Scientific Model: Project- based Learning Method: Discussion, Presentation 2 X 50		0%
11	Students are able to understand the stages of network requirements analysis	1.Students explain the process of capturing user needs. 2.Students state the content of the requirements specification document. 3.Students can carry out the needs screening process.	Approach: Scientific Model: Project- based Learning Method: Discussion, Presentation 2 X 50		0%

12	Students can explain the components of network monitoring.	1.Students can explain in simple terms the definition of the SNMP protocol. 2.Students can explain the working principles of the SNMP protocol. 3.Students can simply operate the SNMP application.	Approach: Scientific Model: Project- based Learning Method: Discussion, Presentation 2 X 50		0%
13	Students can explain the components of network monitoring.	1. Students can explain in simple terms the definition of the SNMP protocol. 2. Students can explain the working principles of the SNMP protocol. 3. Students can simply operate the SNMP application.	Approach: Scientific Model: Project- based Learning Method: Discussion, Presentation 2 X 50		0%
14	Students can create a logical design of network topology	1.Students tell the definition of the Flat LAN model. 2.Students explain the concept of the Hierarchical Topology model. 3.Students explain the concept of the Meshnetwork model.	Approach: Scientific Model: Project- based Learning Method: Discussion, Presentation 2 X 50		0%
15					0%
16					0%

Evaluation Percentage Recap: Project Based Learning

Nο	Evaluation	Percentage	
140	Lvalaation	1 crocmage	
		0%	

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program)
 which are used for the formation/development of a course consisting of aspects of attitude, general skills, special
 skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.

- Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.