

Universitas Negeri Surabaya Faculty of Engineering, Undergraduate Study Program in Informatics Engineering

Document Code

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Courses				CODE			Course Family			Cı	Credit Weight			SEM	STER	Cor Dat	npilatio e	on			
Cloud Co	ompu	ting		5520203034						T=	T=3 P=0 ECTS=4.77			7	July	17, 20	24				
AUTHOR	IZAT	ION		SP Developer				Course Cluster C			r Coordinator		Study Program Coordinator								
										Aditya Prapanca, S.T., M.Kom.											
Learning model		Project Based Le	earning																		
Program		PLO study prog	gram th	at is charge	ed to	the co	ourse														
Learning Outcome		Program Objec	tives (F	PO)																	
(PLO)	Ī	PLO-PO Matrix																			
			P.0																		
		PO Matrix at the	e end o	of each learı	ning	stage	(Sub-F	PO)													
			P.(0					Week												
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	.5	16	
Short Course Descript	tion	This course teach implementing virtu	nes the d ual macl	concepts of v hines with Vir	/irtuali rtualB	zation, ox, WM	manag Iware V	jing vir Vorksta	tual mae ation an	chines, d VMw	, virtua /are E	al stora SXi.	age, vi	irtual n	etworks	s, remot	e virtua	l mach	ines, a	as well	as
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	Ju	0-PO)		Indicator		Crite	ria & Fo	orm	0	ffline ((offlir	ne)		Onlin	e (onl	ine)]			
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1		t to know Cloud hnology	us 2.G ter 3.at	et to know the se of the cloud et to know cloud rminology ole to mention oud functions	n ¹ n ¹	Form o Assess Particip Activitie	sment : atory	:	Lecture 3 X 50		ussion	1								10%	

2 Mestering cloud Groups 1.Krow the cloud correction 1.Krow the cloud correction - Arrow the cloud correcti	1	1		1		1	
Virtual Machiñes Infrastruitar-es-a service (a) computing resources a a a-service (a) computing resources a a a-activité puranteed processing power and reserved bandwidh for storage and software particular application. In other words, Parts Is las5 4. With a coston software (acab) is similar to las5, bandwidh for storage and a-service (acab) is similar to las5, bandwidh requirements for the storage. Form of a-service (acab) is similar to las5, bandwidh for storage and a-service (acab) is similar to las5, bandwidh requirements for the storage. Form of a-service (acab) is similar to las5, bandwidh requirements for the storage. Intervent for a service (acab) is similar to las5, bandwidh requirements for the storage. Form of a-service (acab) is similar to las5, bandwidh requirements for the storage. Intervent for a service (acab acity fo	2	phases and	phases 2.Know the concept of Platform-as-a- Service, Three types of cloud computing, Key Players in Cloud Computing Platforms 3.Know Pricing comparison for major cloud computing	Assessment : Participatory	a		0%
Image: Addition of the advantages of the cloud in development and testing. Colocation will place your server machine on someone else's rack with various bandwidthColocation (Colocation) allocation (Colocation) allocation (Colocation) and (Colocation) allocation (Colocation) and (Colocat	3	Able to Manage Virtual Machines	Infrastructure-as- a-service (IaaS) refers to computing resources as a service. 2. This includes virtualized computers with guaranteed processing power and reserved bandwidth for storage and Internet access. 3. Knowing that Platform-as-a- Service (PaaS) is similar to IaaS, but also includes operating systems and required services for a particular application. In other words, PaaS is IaaS 4. with a custom software stack for the given application. 5. Knowing The data-Storage-as- a-Service (dSaaS) provides storage that the consumer is 6. used including bandwidth requirements for	Assessment : Participatory Activities			10%
6 Mastering the Use Able to practice LectureDiscussionPractice 0%	4	the advantages of the cloud in development and testing. Colocation will place your server machine on someone else's rack with various	Cloud Computing in Development/Test 2.able to explain Colocation 3.able to explain value comparison on co-location, physical server	Assessment : Participatory			10%
	5	Installing Guest Additions	Understanding Private and Public Cloud	Assessment : Participatory			0%
	6	Mastering the Use of Virtual Storage	Able to practice Amazon EC2 VMs				0%

7	Mastering the Use	1.0		Leature Discussion D		00/
	Networking	 Get to know Virtual networking hardware Know each networking mode Able to configure Network Address Translation (NAT) Able to configure using Bridged networking Able to configure Internal networking Able to configure Host-only networking Able to configure UDP Tunnel networking Able to configure VDE networking Able to configure UDP Tunnel networking Able to configure UDP Tunnel networking Able to configure VDE networking Limiting bandwidth for network performance 		LectureDiscussionPractice 2 X 50		0%
8	UTS			2 X 50		0%
9	Cloud Computing Services	know the services of Cloud Computing	Form of Assessment : Participatory Activities	LectureDiscussionPractice 2 X 50		10%
10	Cloud Computing Service Comparison	Know the differences between Cloud Computing service providers	Form of Assessment : Participatory Activities	Lecture Discussion 2 X 50		10%
11	Knowing the good and bad of the Cloud for crucial systems	1.Instructing 2.Cloud goodness for crucial systems 3.disadvantages of the Cloud for crucial systems		LectureDiscussionPractice 2 X 50		0%
12	Understand Cloud Implementation	Understanding Cloud Implementation, in the world of modern technology		LectureDiscussionPractice 3 X 50		0%
13	Mastering the Use of Vshpere Networking		Form of Assessment : Project Results Assessment / Product Assessment	LectureDiscussionPractice 2 X 50		25%
14	Mastering the Use of VMWare Virtual Machine	 Able to create VM Able to configure BIOS Able to install with ISO Server Able to install with ISO Client Able to Export and Import Ova Able to use VMWare Tools 		LectureDiscussionPractice 2 X 50		0%
15	Master the Server Hosting installation	 able to install xampp able to configure the webserver able to use phpmyadmin able to use ftp 	Form of Assessment : Project Results Assessment / Product Assessment	LectureDiscussionPractice 2 X 50		25%
16						0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	50%
2.	Project Results Assessment / Product Assessment	50%
		100%

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.
- 2. 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.
- 5. 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.
- 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.
- 9. 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 subtopics.
- 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.