UNDERGRADUATE PROGRAM IN COMPUTER SCIENCE DEPARTMENT OF COMPUTER SCIENCE AND ELECTRONICS FACULTY OF MATHEMATICS AND NATURAL SCIENCES UNIVERSITAS GADJAH MADA

Module name	Cloud Con	nputing						
Module level	Undergradu	iate						
Code	MII-2610							
Courses (if	NA							
applicable)								
Semester	Fall (Odd)							
Contact person	Dr. Mardhani Riasetiawan, MT							
Lecturer	Dr. Mardhani Riasetiawan, MT							
Language	Bahasa Inde	onesia & Engli	sh					
Relation to	1. Underg	raduate degree	progra	m, com	pulsory	y, 6th se	emester	
curriculum	2. Internat	ional undergra	duate p	rogram	, comp	ulsory,	6th sem	nester.
Type of teaching,	1. Underg	raduate degree	progra	m: lect	ures, <	60 stud	ents,	
contact hours	2. Internat	ional undergra	duate p	rogram	: lectur	res, < 30) studer	nts.
Workload	1. Lectures: 3 x 50 = 150 minutes per week.							
	2. Exercises and Assignments: $2 \times 50 = 100$ minutes per week.							
	3. Private	study: 1 x 50 =	= 50 mi	nutes p	er week	κ.		
Credit points	3 credit points (sks).							
Requirements	A student must have attended at least 75% of the lectures to sit in the							
according to the	exams.							
Examination								
regulations		- I						
Recommended	Computer Networks							
prerequisites	A. C.	1		. 1 .		. 1.		
Learning outcomes	After completing this module, a student is expected to:							
(course outcomes)	COI. Able to explain and identify the concepts and characteristics of cloud							
allu ullelf	computing							
corresponding PLOS	LU2. Able to describe and identify components of Cloud Computing: laaS,							
	Pado, Sado, Cloud Private, Public Cloud, Hydrid Cloud							
	CO3. De able to explain processes and manage cloud computing resources							
	sorvices							
	CO 5 Able to present and present the results of cloud computing							
	development based on specific case studies using a particular cloud							
	acveropment based on specific case studies using a particular cloud							
	F	PLO	CO	CO	CO	CO	CO	
			1	2	3	4	5	
	Program	PLO1						
	Learning	PLO2		\checkmark				
	Outcome	PLO3			\checkmark			

	(PLO)	PL	. 04				\checkmark			
		PL	. 05					\checkmark		
	·		I		1		1		1	
Contents Study and examination requirements and forms of examination	 Concepts and definitions, Cloud Computing Technology Forms and types of cloud computing IaaS, PaaS, SaaS, Private Cloud, Public Cloud, Hybrid Cloud Management of computing resources for cloud computing Cloud Computing environment supporting technology in environments on AWS, Google Cloud, Azzure and others Prototype of cloud computing development The evaluation is done in 2 forms, namely: Trial, either midterm or semester test, Two tasks, including individual, Two group assignments to be completed within a certain timeframe, and 									
	Assessment is done using benchmark assessment, with the aim of measuring the level of student understanding related to the target and class rank.									
Media employed	e-learning P	latform	n (ELOK),	, LC	D, blac	kboard	, and we	ebsites.		
Assessments and			-		664	600	600	604		1
Evaluation	Туре		Percenta	ge	<u>CO1</u>	CO2	CO3	CO4	CO 5	
			10		ν	/				
	Group Lask	K I	15			<u> </u>				
	Midsem 1e	est	25			ν				
	lask 2		10				V	/		
	Group Lask	K 2	15					V /	/	
	FinalSem to	est	25					ν	V	
	Total		100							
Reading List	Clou Pears Thor WA	d Com son Sei nas, Pi	nputing: Co rvice Tech uttini Rica	once molo rdo,	pts, Te ogy Ser Mahm	chnolog ties fron ood Zal	gy and A n Thom gham	Archite as Earl	cture, T , Earl	he

Computer Society, 2009.	