UNDERGRADUATE PROGRAM IN COMPUTER SCIENCE DEPARTMENT OF COMPUTER ENGINEERING FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY

Madula nama	Intelligent Mich and Die Date	
Module name	Intelligent Web and Big Data	
Module level	Undergraduate	
Code	EC184907	
Courses (if applicable)	Intelligent Web and Big Data	
Semester	Elective	
Contact person		
Lecturer		
Language	Indonesia	
Relation to	Undergraduate degree program, elective semester.	
curriculum		
Type of teaching,	Lecture, < 60 students, 170 Minutes * SKS	
contact hours		
Workload	1. Lectures: 3 x 50 = 150 minutes (2.5 hours) per week.	
	2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per	
	week.	
	3. Private study: 3 x 60 = 180 minutes (3 hours) per wee	ek.
Credit points	3 credit points (sks).	
Requirements	A student must have attended at least 75% of the lectures to sit in	
according to the	the exams.	
examination		
regulations		
Mandatory		
prerequisites	CLO 4 CL de de constituir a de colonidad de de colonidad	DI O 3
Learning outcomes	CLO-1 Students are able to understand and applying	PLO-3 PLO-4
and their	Big Data software	PLO-4
corresponding PLOs		
	CLO-2 Students are able to implement the design and	PLO-3
	architecture of Big Data for specific case	PLO-4
		DI O F
	CLO-3 Students are able to analyze the need of Big Data Systems.	PLO-5 PLO-6
Content		
Content	In this course, students will learn about Big Data process how to visualize it.	ing and
0. 1		
Study and	• In-class exercises	
examination	• Quiz 1 and 2	
requirements and forms of examination	Assignment 1, 2, 3Mid-term examination	
TOTTIS OF EXAMINITATION	Final examination	
Media employed	LCD, whiteboard, websites (myITS Classroom).	

Assessments and	CO-1: Assignment 1 (5%), question no 4 in midterm exam (30%)	
Evaluation	Quiz 2 (5%)	
	CO-2: Question no 1 in final exam (30%), question no 2 in final exam (15%)	
	CO-3: Assignment 2 (5%), question no 3 in final exam (10%)	
Reading List	1. Apache Hadoop	
	2. Apache Spark	
	3. Selected Big Data Papers	