

Universitas Negeri Surabaya Faculty of Engineering, Electrical Engineering Undergraduate Study Program

Document Code

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				SEM	ESTER	LEAF	RNIN	G P	LA	N			
Courses				CODE		Course F	amily		Cred	it Wei	ght	SEMESTER	Compilation Date
Data Min	ing			2020102023					T=2	P=0	ECTS=3.18	5	July 18, 2024
AUTHOR	IZAT	TION		SP Develope	r		C	Course	Clus	ter Co	oordinator	Study Progra Coordinator	am
									Dr. Lusia Rakhmawati, S.T., M.T.				
Learning model		Case Studies											
Program Learning	1	PLO study pro	gram t	hat is charge	d to the cou	rse							
Outcome	es	Program Object	ctives ((PO)									
(PLO)		PLO-PO Matrix	(
				P.O									
		PO Matrix at th	ne end	of each learr	ing stage (S	ub-PO)							
			P.	0	 			We	ek				
				1 2	3 4	5 6	7 8	9	10) 1	1 12	13 14 1	.5 16
Short Course Descript	tion	Basic concepts applications	and und	derstanding of	data mining S	Stages in (data minir	ng Dat	a min	ing m	odels Data n	nining function	s Data mining
Reference	ces	Main :											
				heline Kamber 1013. Data Mini									· Inc
		Supporters:											
Supporti lecturer	ing	Unit Three Kartir Arif Widodo, S.T											
Week-	eac	inal abilities of ach learning tage Help Learning Testimated tire		nethodignmo	ds, ents, e]	Learning materials [References	Assessment Weight (%)						
(S		ub-PO)		dicator Criteria & Form Offline offline			Online (online)		1				
(1)		(2)		(3)	(4)		(5)			(6)	(7)	(8)

F:						
1	Students are able to understand the basic concepts of data mining	1.Explain the basic concepts of data mining 2.Explains data databases and cluster analysis	Criteria: 1. The assessment criteria are carried out by looking at aspects: 2. Participation: carried out by observing student activities (weight 2) UTS: carried out by assessment during the middle of the semester (weight 2) UAS: carried out every semester to measure all indicators (weight 3) Assignments: carried out on each indicator (weight 3) Value Student End: 3. Participation Score (2) x Assignment Score (3) x UTS Score (2) x UAS Score (3) divided by 10.	Presentation, group discussion and reflection 2 X 50		0%
2	Students are able to know about the form of data	1.Explains object and attribute data 2.Explains data visualization	Criteria: 1. The assessment criteria are carried out by looking at aspects: 2. Participation: carried out by observing student activities (weight 2) UTS: carried out by assessment during the middle of the semester (weight 2) UAS: carried out every semester to measure all indicators (weight 3) Assignments: carried out on each indicator (weight 3) Value Student End: 3. Participation Score (2) x Assignment Score (3) x UTS Score (2) x UAS Score (3) divided by 10.	Presentation, group discussion and practice 2 X 50		0%

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3	Students are able to understand data preprocessing	1.Explains data preprocessing 2.Explains data cleaning, data integration and data reduction	Criteria: 1.The assessment criteria are carried out by looking at aspects: 2.Participation: carried out by observing student activities (weight 2) UTS: carried out by assessment during the middle of the semester (weight 2) UAS: carried out every semester to measure all indicators (weight 3) Assignments: carried out on each indicator (weight 3) Value Student End: 3.Participation Score (2) x Assignment Score (3) x UTS Score (2) x UAS Score (3) divided by 10.	Presentation, group discussion and practice 2 X 50			0%
4	Students are able to understand process analysis	1.Explain process analysis 2.Explain about data warehouse	Criteria: 1.The assessment criteria are carried out by looking at aspects: 2.Participation: carried out by observing student activities (weight 2) UTS: carried out by assessment during the middle of the semester (weight 2) UAS: carried out every semester to measure all indicators (weight 3) Assignments: carried out on each indicator (weight 3) Value Student End: 3.Participation Score (2) x Assignment Score (3) x UTS Score (3) divided by 10.	Presentation, group discussion and practice 2 X 50			0%

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5	Students are able to understand process analysis and data generalization	1.Explain the implementation of a data warehouse 2.Explains data generalization	Criteria: 1.The assessment criteria are carried out by looking at aspects: 2.Participation: carried out by observing student activities (weight 2) UTS: carried out by assessment during the middle of the semester (weight 2) UAS: carried out every semester to measure all indicators (weight 3) Assignments: carried out on each indicator (weight 3) Value Student End: 3.Participation Score (2) x Assignment Score (3) x UTS Score (3) divided by 10.	Presentation, group discussion and practice 2 X 50		0%
6	UTS		,	2 X 50		0%
7						0%
8						0%
9						0%
10						0%
11						0%
12						0%
13						0%
14						0%
15						0%
16						0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage	•
		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.
- 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.

- 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.