

## Universitas Negeri Surabaya Vocational Faculty, D4 Informatics Management Study Program

Document Code

			SEMEST	ER LEA	RNIN	IG F	PLAI	N					
Courses			CODE		Course Family	С	redit W	eight	SEMESTER	Compilation Date			
Database	e Mai	nagement Practic	um 5730101173			T	=0 P=2	ECTS=3.18	4	July 17, 2024			
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										n Dermawan, S.T., M.T.			
Learning model	I	Case Studies											
Program Learning		PLO study prog	gram which is charged	I to the course	9								
Outcom (PLO)		Program Objec	Program Objectives (PO)										
(PLO)		PLO-PO Matrix											
			P.O										
		PO Matrix at the end of each learning stage (Sub-PO)											
			P.O 1 2 3	4 5 6	7	W 8 9	eek 10	11 12	13 14	15 16			
Short Course Descript	tion	concept which which which which we specialization, Ge of creating Subquirt query optimizatio	discuss databases and th will be continued with eneralization and Catego Jeries, Transact SQL thro n. To deepen knowledge rs, mobile databases, clou rd.	EERD (Enhanc rization. Next, we bugh functions, s about advanced	ed Entity e will con store proc d theme c	y Rela tinue w edures latabas	tionship ith a rev and trig es, clier	Diagram) wl view of SQL ar ggers. The que nt server datab	hich includes nd advanced S ery discussion bases, distribut	the topics of QL in the form also discusses ed databases,			
Referen	ces	Main :											
		1. Elmasri.	Navathe. 2017. Fundame	ntal of Database	e System	7th Edi	tion. Pe	arson					
		Supporters:											
Support lecturer			., M.Kom. ayat, S.Kom., M.T. fitra, S.ST., M.Kom.										
Week-		al abilities of h learning	Evaluat	- -		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials	Assessment Weight (%)				
		ge b-PO)	Indicator	Criteria & For	rm Offl ( offl )		Online	e ( online )	References ]	weigin (70)			
(1)		(2)	(3)	(4)	(5	5)		(6)	(7)	(8)			

1	Students are able to relate database material to advanced database topics	<ol> <li>Students can explain the concept of ERD</li> <li>Students can explain the ERD Symbol</li> <li>Students can explain the concept of mapping CDM to PDM</li> <li>Students can explain the process of creating a database</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
2	Students can use EERD symbols to solve complex database problems	<ol> <li>Students can explain the concept of EERD</li> <li>Students can differentiate the concepts of specialization, generationalization and categorization</li> <li>Students can explain the concept of EERD mapping</li> <li>Students can apply the EERD concept to case studies</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
3	Students can use basic SQL	1.Students can use SQL : DDL 2.Students can use SQL : DML	Criteria: Holistic Rubric	3 X 50		0%
4	Students can use Subquery-based SQL	<ol> <li>Students can write SQL - Subquery for SELECT Operation</li> <li>Students can write SQL - Subquery for INSERT Operation</li> <li>Students can write SQL - Subquery for DELETE Operation</li> <li>Students can write SQL - Subquery for UPDATE Operation</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
5	Students can create Functions and Store Procedures in a Database	1.Students can create Functions 2.Students can create Store Procedures	Criteria: Holistic Rubric	3 X 50		0%
6	Students can create Triggers in the Database	1.Students can create Triggers 2.Students can use Trigger	Criteria: Holistic Rubric	3 X 50		0%

7	Students can explain strategies for Query Optimization	<ol> <li>Students can mention the factors that influence query optimization</li> <li>Students can explain the concept of indexing</li> <li>Students can explain the concept of database clustering</li> <li>Students can explain SQL</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
		concepts in queries				
8	MIDDLE SEMESTER EXAMINATION (UTS)			3 X 50		0%
9	Students understand the concept of the Client Server database. Students can explain the implementation of the Client Server database	<ol> <li>Students can explain the concept of Client Server database</li> <li>Students can demonstrate the implementation of a Client Server database</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
10	Students can explain the concept of a Distributed Database. Students can implement a Distributed Database	<ol> <li>Students can explain the concept of Distributed Databases</li> <li>Students can implement Distributed Databases</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
11	Students can explain the concept of XML. Students can implement XML	<ol> <li>Students can explain XML concepts</li> <li>Students can implement XML</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
12	Students can explain the concept of Spatial and vector Databases. Students can implement Spatial and vector Databases	<ol> <li>Students can explain the concepts of Spatial and vector Databases</li> <li>Students can implement spatial and vector databases</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
13	Students can explain the concept of a Cloud Database. Students can implement a Cloud Database	<ol> <li>Students can explain the concept of Cloud Database</li> <li>Students can implement Cloud Database</li> </ol>	Criteria: Holistic Rubric	3 X 50		0%
14	Students can explain the concepts of Datawarehousing, ETL, and OLAPStudents can implement Datawarehousing, ETL, and OLAP	1.Students can explain the concepts of Datawarehousing, ETL, and OLAP 2.Students can implement Datawarehousing, ETL, and OLAP	Criteria: Holistic Rubric	3 X 50		0%

15	Students understand the concept of Data Mining, Clustering, Classification, and Association techniques. Students can explain the implementation of Data Mining, Clustering, Classification, and Association techniques	<ol> <li>Students understand the concepts of Data Mining, Clustering, Classification and Association techniques</li> <li>Students can explain the implementation of Data Mining, Clustering, Classification and Association techniques</li> </ol>	Criteria: Holistic Rubric	3 X 50		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.
- 9. Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative 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.