

Course Code	TKIT162105P											
Course Name	Database Engineering Lab Work											
Course Instructors	Warsun Najib; Silmi Fauziati; Teguh Bharata Adji											
Course Type	Required											
Course Classification	Engineering Topics											
Credit / Contact Hour per Week	1 / 150 minutes per Week											
Course Description	In this course, student will learn and apply the logical and physical design, and how to implement the design in the database management system.											
Prerequisites Courses												
Covered Student Outcome	Development of Engineering Solution (b) Engineering Design (c) Data and Experiment (d) Modern Tools Utilization (e)											
Learning Outcome												
		Study Program Student Outcome										
No	Learning Outcome	SO (a) – SO (k)										
1.	Students are able to use ER and DBMS software to build database application	Modern Tools Utilization										
2.	Students are able to analyze database problem and design a ER model as a solution.	Data and Experiment										
3.	Students are able to design relational model to solve database problem	Engineering Design										
4.	Students are able to construct SQL data manipulation statement (CRUD) related to a certain database case.	Development of Engineering Solution										
Topic	1. Lab work unit 1 2. Lab work unit 2 3. Lab work unit 3 4. Lab work unit 4 5. Lab work unit 5 6. Lab work unit 6											
Direct Assessment	<table border="1"> <thead> <tr> <th>Direct Assessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Assignments Lab 1- 6</td> <td>LO1</td> </tr> <tr> <td>Final Exam</td> <td>LO2</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Direct Assessment Plan	Measured Learning Outcome	Assignments Lab 1- 6	LO1	Final Exam	LO2				
Direct Assessment Plan	Measured Learning Outcome											
Assignments Lab 1- 6	LO1											
Final Exam	LO2											
Indirect Assesment	Questionnaire (EDOM)											
References	[1] Jeffrey A. Hoffer, Mary B. Prescott, and Heikki Topi, <i>Modern Database Management (10th edition)</i> Prentice Hall, 2011. [2] Database Design for Mere Mortals®: A Hands-on Guide to Relational Database Design, Third Edition. Michael J. Hernandez. Addison-Wesley Professional. 2013.											