UNIVERSITAS NEGERI PADANG
FACULTY OF MATHEMATICS AND NATURAL SCIENCES MATHEMATICS
DEPARTMEN, MATHEMATICS STUDY PROGRAM Main Campus Universitas
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Bachelor of Science in Mathematics	MODULE HANDBOOK

Module name:	Databases
Module level, if applicable:	Bachelor
Code:	MAT2.62.7010
Subheading, if applicable:	-
Classes, if applicable:	Databases
Semester:	7th (seventh)
Module coordinator:	Head of Applied Mathematics Expertise Group
Lecturer(s):	Meira Parma Dewi, S.Si., M.Kom. and Defri Ahmad, S.Pd., M.Pd.
Language:	Indonesian Language and English
Classification within the curriculum:	Elective course in the fourth year (7th semester) Bachelor Degree
Teaching format / class hours per week during the semester:	a. Lectures: Project Based Learning with methods such as expository, discussion, and Practicum (3 x 50 minutes = 150 minutes). b. Structured assignment: Weekly individual written assignment (3 x 60 minutes = 180 minutes). c. Individual study (3 x 60 minutes = 180 minutes).
Workload:	Total workload is 136 hours per semester which consists of 150 minutes of lectures, 180 minutes of structured activities, and 180 minutes of self-study per week for 16 weeks.
Credit points:	3 SKS = 4,53 ECTS
Prerequisites course(s):	None

Course outcomes:	After taking this course the students have ability to: CO1. Distinguish the basic concepts of database, relational database and ERD CO2. Apply the concept of database, relational database and ERD to SQL CO3. Apply the concept of database, relational database and ERD to Visual FoxPRo
Content:	1. Introduction to databases 2. Database Language 3. Types of Databases 4. Database System 5. Relational Database 6. Relational Data Model 7. Entity Relational Diagram 8. Normalization 9. SQL 10. Visual FoxPro
Study/exam achievements:	The final grade will be weighted as follows: The assessment consists of a final project (50%), a midterm exam (30%), and an assignment (20%). Students are separated into groups and build a programme (practicum) related to this course. The final project entails group discussion to build a program related to database A midterm test is taken to examine whether students understand the theory covered in the half-semester course.
Forms of media:	White Board, laptop, Projector, e-learning via elearning2.unp.ac.id, and zoom meeting.
Literature:	1. Fathansyah. 2012. Basis Data Edisi Revisi. Informatika, Bandung 2. Janner Simarmata, Iman Paryudi. 2006. Basis Data. ANDI, Jogyakarta 3. Kadir, Abdul. Penuntun Praktis Belajar SQL. ANDI Yogyakarta. 2002

PLO and CO Mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1			✓							
CO2					✓					
CO3										✓