



UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Data Mining
Module level,if applicable:	Undergraduate
Code:	MAT6352
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	7 th
Module coordinator:	Nurhadi Waryanto, M.Eng.
Lecturer(s):	Nurhadi Waryanto, M.Eng.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours perweekduring the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self- study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Advanced Statistics (MAT6309) Algorithms and programming (MAT 6310)
Course Outcomes	After taking this course the students have ability to: CO1. Demonstrate collaborative attitude and independence in carrying out individual tasks and group assignments. CO2. Know and understand the basic concepts of data mining.

	<p>CO3. Understand the data warehouse, its implementation, and the relationship between the data warehouse and data mining.</p> <p>CO4. Know and understand data mining architectures and models.</p> <p>CO5. Understand classification problems, and being able to apply data classification and prediction methods.</p> <p>CO6. Know and understand the techniques of data mining.</p>															
Content:	This course discusses concepts and understanding of data mining, concepts and understanding of data warehouse, data mining life cycle, OLAP, data mining techniques, applications and data mining trends.															
Study/exam achievements:	<p>CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO2, CO3, CO4, CO5 and CO6</td> <td>a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam</td> <td>Presentation / written test</td> <td>10% 20% 20% 20% 30%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO2, CO3, CO4, CO5 and CO6	a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam	Presentation / written test	10% 20% 20% 20% 30%	Total				100%
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Forms of media:	Board, LCD Projector, Laptop/Computer															
Literature:	<p>1. Jiawei Han, Micheline Kamber, 2005, Data Mining : Concepts and Techniques , Second Edition, Morgan Kaufmann.</p> <p>2. Sushmita Mitra, Tinku Acharya , (2005)Data Mining: Multimedia, Soft Computing, and Bioinformatics, John</p>															

