



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:	Artificial Intelligence
Module level,if applicable:	Undergraduate
Code:	MAT6358
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	7 th
Module coordinator:	Dr. Sri Andayani, M.Kom
Lecturer(s):	1. Dr. Sri Andayani, M. Kom 2. Nurhadi Waryanto, M.Eng
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours perweek during 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):	Algorithm and Programming (MAT6310)
Course Outcomes	After taking this course the students have ability to: CO1. Showing polite, honest, good attitude in lectures. CO2. Communicate ideas in understanding the basic theories of Artificial intelligence and their functions independently and in groups

	<p>CO3. Knowing and analyzing cases related to artificial intelligence.</p> <p>CO4. Using algorithms to solve cases related to artificial intelligence..</p> <p>CO5. Applying artificial intelligence systems to solve several problems</p>															
Content:	This course discusses definition of artificial intelligence, scope, characteristics, programming and development, searching algorithms, Soft computing: fuzzy, genetic algorithms, neural networks.															
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 and CO5</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 and CO5	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. Negnevitsky, Michael. 2005. Artificial Intelligence-A Guide to Intelligent Systems- Second Edition. Pearson Education Limited</p> <p>2. Russel, Stuart and Norvig, Peter. 1995. Artificial Intelligence: A Modern Approach. Prentice Hall International, Inc.</p>															

