



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:	Object Oriented Programming
Module level,if applicable:	Undergraduate
Code:	MAT6357
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. Bambang SHM, M. Kom
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):	Algorithms and Programming (MAT6310)
Course Outcomes	After taking this course the students have ability to: CO1. Demonstrating respect for opinions and work results of classmates in discussion and presentation of program results. CO2.Delivering critics, suggestions and ideas in solving the

	<p>problem of object-oriented programming both independently and in groups</p> <p>CO3. Using the concept of object oriented programming for software development and engineering</p> <p>CO4. Using the concept of object-oriented programming correctly and efficiently to form a software system to solve a problem.</p> <p>CO5. Utilizing python and java programming languages to implement object oriented programming.</p>																						
Content:	<p>This course discusses material relating to class and object modeling, and Java programming. The main material covered includes: introduction of object-oriented programming, Java Programming Language and its editor, Class and Object, Instant / Instance, Inheritance / Polarity, Polymorphism / Exception / Exception and Input-Output / Input Streams, and Graphic User Interfaces (GUI).</p>																						
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" data-bbox="621 1528 1393 1816"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td rowspan="5">1</td> <td rowspan="5">CO2, CO3, CO4 and CO5</td> <td>a. Individual Assignment</td> <td rowspan="5">Presentation / written test</td> <td>10%</td> </tr> <tr> <td>b. Group Assignment</td> <td>20%</td> </tr> <tr> <td>c. Quiz</td> <td>20%</td> </tr> <tr> <td>d. Mid</td> <td>20%</td> </tr> <tr> <td>e. Final Exam</td> <td>30%</td> </tr> <tr> <td colspan="3">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO2, CO3, CO4 and CO5	a. Individual Assignment	Presentation / written test	10%	b. Group Assignment	20%	c. Quiz	20%	d. Mid	20%	e. Final Exam	30%	Total			100%
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Forms of media:	Board, LCD Projector, Laptop/Computer																						

