



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education in Mathematics

MODULE HANDBOOK

Module name:	Perspective and Study on Mathematics and Natural Science
Module level, if applicable:	Undergraduate
Code:	AMF6201
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	3 th
Module coordinator:	Team
Lecturer(s):	Team
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self-study per week for 16 weeks.
Credit points:	2
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. Showing polite, honest, good attitude in lectures. CO2. Understand the insights of natural sciences CO3. Understands the basic concepts of the scientific method in solving mathematics and science problems

	<p>CO4. Understand the ways of reasoning in mathematics by using logic and correct reasoning</p> <p>CO5. Integrate the fields of mathematics and science in everyday life</p> <p>CO6. Know the development of mathematics and science in the context of the latest science and technology.</p>															
Content:	<p>This course discusses the basic methods of Mathematics and Natural Science (scientific method) in solving problems and the way / technique of arranging conclusions based on the correct rules of reasoning (mathematical logic). It also covers the basic concepts of science and its latest developments.</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"> <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% 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% 30%	Total				100%
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Total				100%												
Forms of media:	Board, LCD Projector, Laptop/Computer															
Literature:	1. Neuhauser, C., 2004, <i>Calculus for Biology and Medicine</i> , Second Edition, Upper Saddle River: Pearson Education, Inc.															

