



# UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
DEPARTMENT OF SCIENCE EDUCATION

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## Bachelor of Education in Science

## MODULE HANDBOOK

Module name:	Science 2
Module level, if applicable:	Undergraduate
Code:	IPA6224
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	4 <sup>rd</sup> ( fourth)
Module coordinator:	Sabar Nurohman, M.Pd
Lecturer(s):	Sabar Nurohman, M.Pd, Purwanti Widhy H, M.Pd, Al Maryanto, M.Pd, Wita S, M.Pd
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 and 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	2 (3 ETCS)
Prerequisites course(s):	Science 1
Targeted learning outcomes:	After taking this course the students have ability to: CO1. Show responsibility in carrying out individual tasks and group assignments CO2. Demonstrate collaborative and have social attitude in complete a group assignment CO3. Able to use knowledge systematically related to science knowledge in second grade of junior high school learning

	CO4. Mastering basic concept of science in first grade of junior high school																				
Content:	This course is to develop competencies in mastering concepts comprehensively and how to teach the concept of science for class VII of the SMP / MTs science curriculum and develop personality (attitudes) and skills in a comprehensive science investigation activity on the concept of second grade science / junior high school science curriculum.																				
Study / exam achievements:	<p>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 rowspan="4">1</td> <td rowspan="4">CO1 CO2, CO3 and CO4</td> <td>a. Individual Assignment</td> <td rowspan="4">Presentation / written test</td> <td>15%</td> </tr> <tr> <td>b. Group Assignment</td> <td>15%</td> </tr> <tr> <td>c. Mid</td> <td>25%</td> </tr> <tr> <td>d. 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	CO1 CO2, CO3 and CO4	a. Individual Assignment	Presentation / written test	15%	b. Group Assignment	15%	c. Mid	25%	d. Final Exam	30%	Total			100%
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Total			100%																		
Forms of media:	Board, LCD Projector, Laptop/Computer																				
Literature:	<p>A. Solomon, Berg, and Martin.2008. Biology. Thompson Brooks/Cole</p> <p>B. Campbell, Reece, Mitchel. 1999.Biology [translation]. Jakarta: Erlangga.</p> <p>C. Marieb, E.&amp; K.Hoehn. 2010. Human Anatomy &amp; Physiology. 8th edition. San Fransisco: Pearson, Inc.</p> <p>D. Sears &amp; Zemansky. 2002. Fisika Universitas. Jakarta: Erlangga</p> <p>E. Trefil, J. dan Hazen, R. M, (2007). The Science: An Integrated Approach. John Wiley &amp; Sons, Inc.</p> <p>F. Hewitt, Paul G. (1992). Conceptual Physics. San Fransisco: Harper Collins College Publishers</p>																				

