



UNIVERSITAS NEGERI PADANG
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
MATHEMATICS DEPARTMENT, MATHEMATICS EDUCATION STUDY PROGRAM
Main Campus Universitas Negeri Padang.
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Bachelor of Mathematics Education

MODULE HANDBOOK

Module name:	Basic Natural Science
Module level, if applicable:	Bachelor
Code:	UNP2.60.1401
Sub-heading, if applicable:	-
Classes, if applicable:	Basic Natural Science
Semester:	6 th (sixth)
Module coordinator:	Dr. Setiawati, M.Si.
Lecturer(s):	Dr. Setiawati, M.Si., and Team
Language:	Bahasa Indonesia
Classification within the curriculum:	University Elective Course
Teaching format/ class hours per week during the semester:	Teaching format: <ul style="list-style-type: none">• Lectures (face to face activities): Delivery information, recitation, discussion, question and answer session,• Structured assignment, and• Independent activities. 2 x 170 minutes = 340 minutes = 5.67 hours
Workload:	16 weeks per semester include Midterm Exam and Final Exam which consist of: <ul style="list-style-type: none">• 1.67 hours lectures (2 x 50 minutes) per week,• 2 hours structured assignments (2 x 60 minutes) per week,• 2 hours independent activities (2 x 60 minutes) per week, 16 x 2 x 170 minutes = 5440 minutes = 90.60 hours = 3.02 ECTS
Credit points:	2 SKS (3.02 ECTS)
Prerequisites course(s):	-
Course outcomes:	After taking this course, the students have ability to: CO 1 : Understand the nature, purpose, and scope of basic natural science courses, the nature of the human mind and its development, development of natural sciences, the earth in the universe, the formation of the universe and the solar system, diversity of creatures and their distribution, creatures in natural ecosystems, natural resources

	<p>and environment, substance and energy, natural science and technology for human life, some important technological developments and environmental issues.</p> <p>CO 2 : Show responsibility attitude towards independent studies and team work.</p>
Content:	<p>This course discusses:</p> <ol style="list-style-type: none"> 1. The nature, purpose, and scope of basic Natural Science courses 2. The nature of the human mind and its development 3. Development of Natural Sciences 4. The earth in the Universe 5. The formation of the universe and the solar system 6. Diversity of Creatures and Their Distribution 7. Creatures in Natural Ecosystems 8. Natural Resources and Environment 9. Substance and Energy 10. Natural Science and Technology for Human Life 11. Some Important Technological Developments and Environmental Issues
Study/exam achievements:	<p>Total Score = (20% x Midterm Exam Score) + (20% x Final Exam Score) + (50% x Assignment: paper for presentations, resume) + (10% x Affective Score)</p> <p>The initial cut - off points for grades A, A-, B+, B, B-, C+, C, C-, and D should not be less than 85, 80, 75, 70, 65, 60, 55, 50, and 40 out of 100 respectively.</p> <p>Explanation:</p> <p>1. Midterm Exam</p> <ul style="list-style-type: none"> ✓ Midterm Exam will be conducted in the 9th meeting . ✓ Midterm Exam is in the form of a written test (essay) and will be conducted in the classroom. ✓ The time allocation is 120 minutes according to the module schedule. <p>2. Final Exam</p> <ul style="list-style-type: none"> ✓ Final Exam will be conducted in the 16th meeting. ✓ Final Exam is in the form of a written test (objective) and will be conducted in the classroom. ✓ The time allocation is 120 minutes which follows the Final Exam schedule. <p>3. Assignment</p> <ul style="list-style-type: none"> ✓ Presentations: the participants of the module will be divided into several small groups. Each of the groups will assign to particular topic related to the learning content of Basic Natural Science. The students should discuss the topic, prepare the paper and conduct a class presentation. ✓ Resume: Students summarize the learning content and write a report. <p>4. Affective Assessment</p> <ul style="list-style-type: none"> ✓ Affective assessment is held in every meeting by observing students' attitude in the classroom. ✓ The assessment is based on the observation sheet by using the given scoring rubrics

Forms of media:	LCD, Power Point
Literature:	<ol style="list-style-type: none"> 1. Kadri, M. (2017). Ilmu Alamiah Dasar. 2. Sodik, I. M. (2017). <i>Ilmu Kealaman Dasar</i>. Prenada Media. 3. Ilmu Alamiah Dasar (IAD), Ilmu Sosial Dasar (ISD), Ilmu Budaya Dasar IBD dalam Perspektif Islam. (2016). (n.p.): Duta Media Publishing. 4. Latif, Mukhtar. (2014). <i>Orientasi ke Arah Filsafat Ilmu</i>. Jakarta: Kencana Prenada Group. 5. Herabudin. (2010). <i>Ilmu Alamiah Dasar</i>. Bandung: Pustaka Setia.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1					✓						
CO2										✓	