



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

**MODULE HANDBOOK**

Module name:	Basic Natural Science
Module level, if applicable:	Bachelor
Code:	UNP2.60.1401
Subheading, if applicable:	-
Classes, if applicable:	Basic Natural Science
Semester:	3 <sup>rd</sup> (third semester)
Module coordinator:	Zulhendri Kamus, S.Pd., M.Si.
Lecturer(s):	Zulhendri Kamus, S.Pd., M.Si. and Team
Language:	Indonesian Language and English
Classification within the curriculum:	Elective course in the second year (3 <sup>rd</sup> semester) Bachelor Degree
Teaching format / class hours per week during the semester:	<ol style="list-style-type: none"><li>Lectures : Cooperative learning with methods such as expository, discussion, and presentation. (2 x 50 minutes = 100 minutes)</li><li>Structured assignment : Weekly individual written assignment. (2 x 60 minutes = 120 minutes)</li><li>Individual study. (2 x 60 minutes = 120 minutes)</li></ol>
Workload:	100 minutes lectures, 120 minutes structured activities, 120 minutes individual study, 16 weeks per semester (including mid and final exam)= 90,67 hours per semester.
Credit points:	2 SKS = 3.02 ECTS
Prerequisites course(s):	No prerequisite is needed

Course Outcomes:	<p>After completing this course, the students have ability to:</p> <p>CO 1. Perform work together and have social sensitivity and care for the community and the environment.</p> <p>CO 2. Summarizes theoretical concepts and principles about the development of science, and technology</p> <p>CO 3. Demonstrate independent, quality, and measurable performance.</p> <p>CO 4. Solve various environmental problems wisely</p>
Content:	<p>The essence, purpose, and scope of basic natural sciences courses, the human mind and its development, the development and development of natural science, the earth in the universe, the formation of the universe and the solar system, the diversity of living things and their distribution, living things in natural ecosystems, sources of nature and the environment, matter and energy, natural science and technology for human life, and some important technological developments and environmental issues</p>
Study/exam achievements:	<p>The final mark will be weighted as follows:</p> <p>The assessment consists of final exam (30 %), mid term exam (30%), assignment (20%), Class Activities: Presentation and Quiz. (20%).</p> <p>Final and mid term exams are in the form of a closed book essay written test (120 minutes).</p> <p>Each student gets a weekly assignment as an individual or group</p>
Forms of media:	<p>White Board, laptop, Projector, e-learning via <a href="http://elearning2.unp.ac.id">elearning2.unp.ac.id</a>, and zoom meeting.</p>
Literature:	<ol style="list-style-type: none"> <li>1. Hand Out Perkuliahan Ilmu Kealaman Dasar oleh Tim IAD UNP Padang tahun 2007</li> <li>2. Darmojo, Hendro dan Yeni Kaligis. (2004). <i>Ilmu Alamiah Dasar</i>. Jakarta; Universitas Terbuka</li> <li>3. Ditjen Dikti Depdiknas. (2004). Makalah Pelatihan Dosen Matakuliah Berkehidupan Bermasyarakat Ilmu Kealaman Dasar (IAD) di Medan tgl. 28-30 Juli 2004</li> <li>4. Ditjen Dikti Depdiknas. (2006). Modul Acuan Pembelajaran Ilmu Kealaman Dasar. Padang; Pelatihan Dosen Ilmu Kealaman Dasar di Padang tgl. 11-13 September 2006</li> <li>5. Hudiyono, Sumi. Perkembangan Teknologi. Makalah Pelatihan Nasional Dosen IAD, Dirjen Dikti Depdiknas di Surabaya 28-30 Juli 2004</li> </ol>

