



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:	General Biology
Module level, if applicable:	Bachelor
Code:	FMA1.60.1301
Subheading, if applicable:	-
Classes, if applicable:	General Biology
Semester:	2 nd (Second Semester)
Module coordinator:	Drs. Mades Fifendy, M. Biomed
Lecturer(s):	Drs. Mades Fifendy, M. Biomed and team
Language:	Indonesian Language and English
Classification within the curriculum:	Compulsory Courses in the first year (2 nd semester) Bachelor Degree
Teaching format / class hours	<ol style="list-style-type: none">Lectures : Problem based learning with methods such as expository and group discussion (3 x 50 minutes = 150 minutes).Structured assignment (3 x 60 minutes = 180 minutes).Individual study. (3 x 60 minutes = 180 minutes).Practical lesson in the Laboratorium (170 minutes).
Workload:	Total workload is 181,33 hours per semester, which consists of 150 minutes lectures per week for 16 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, and 170 minutes laboratory work per week, in total is 16 weeks per semester (including mid and final exam)
Credit points:	4 SKS = 6.04 ECTS
Prerequisites course(s):	No prerequisite is needed

Course Outcomes:	<p>After completing this course, the students have ability to:</p> <p>CO 1. Care about the environment and other living creatures</p> <p>CO 2. Showing the scientific attitude in conducting experiment in the laboratory and in writing the reports.</p> <p>CO3. Describes knowledge about living things, scientific methods, cells, metabolism, biodiversity, the organizational structure of plant and animal bodies, organ systems in living things, interactions of organisms with the environment, inheritance and evolution, and the principles and applications of biotechnology.</p>
Content:	<ul style="list-style-type: none"> ● Living things and the scientific method ● Cell as the basis of life ● metabolism ● Biodiversity ● Organizational structure of plant and animal bodies ● Organ system ● Organism and environment interactions ● Inheritance and evolution ● Biotechnology applications.
Study/exam achievements:	<p>The final mark will be weighted as follows:</p> <p>The practicum (25%), final examination (25%), mid term exam (25%), assignment (15 %), and affective score (10%).</p> <p>The final and mid-term exams are essay tests with a closed book (120 minutes).</p> <p>Group discussion: The class participants will be separated into several small groups. Each group will be assigned to a certain topic relating to the course material. The students should discuss the issue, write a paper, and give a presentation in class.</p> <p>Practical work is done in the biology laboratory under the guidance of a lecturer or lecturer assistant. Practical experience is required to see some biological processes.</p> <p>The assessment is made based on the observation sheet and the scoring rubrics provided.</p>
Forms of media:	<p>White Board, laptop, Projector, e-learning via elearning2.unp.ac.id, and zoom meeting.</p>
Literature:	<ol style="list-style-type: none"> 1. Raven, P dan Johnson, G. 2001. Biology Sixth Edition. Washington:Mcgraw-Hill College 2. Campbell, N.A., Reece J.B., Urry L.A., Cain M.L., Wasserman SA., Minorsky PV dan Jackson R.B, 1999. Biologi Edisi Kelima. Alih Bahasa: Damaring Tyas Wulandari, Jakarta: Erlangga. 3. Kimbal, J.W.1990. Biologi. Alih Bahasa: Soetarmi.

