

4. Module IV: Life Science

4.1. Module Objectives

On completion of this module, the students will be able to:

- Describe basic concepts of biology comprehensively
- Relate the key integrating concepts of biology for the subsequent courses

4.2. Module Data

Person in charge	Dr. Agus Dana Permana
Total Credits	4
Course	BI-1101 Fundamental Biology
Modul Examination	Written Test

4.2.1. Sub-module I: Fundamental Biology

Lecturer	Dr. Tjandra Anggraeni Dr. Agus Dana Permana
Semester	1
Type of submodule / course	Lecture with exercises
Credits	4
Workload:	4 hours lectures, 4 hours structured activities, 4hours individual study, 14 weeks per semester, and total 192 hours a semester
Workload details	Textbook reading assignment, paper review, group discussion and presentation
Classification within the curriculum:	General Studies / Compulsory Course/ Elective Course
Type of assessment/examination	Written Test : Midterm exam, Final exam, Quizess, Assigments
Language	Bahasa Indonesia
Course Target / Outcome	<i>After completion of this module students are expected to be able to:</i> Knowledge: Describe basic concepts of biology comprehensively Competences: Relate the key integrating concepts of biology for the subsequent courses

Teaching methods	Interactive Teaching
Contents	<p>This module is designed to introduce basic integrating concepts of biology, including:</p> <ul style="list-style-type: none"> • Cell and Molecular Biology • Genetics • Evolution • Biodiversity • Form and Function • Ecology <p>This module is for 1st year students, and thus emphasizes the ability of students to acquire knowledge rather than the mastery of skills.</p>
Literature / Sources	<ul style="list-style-type: none"> • Campbell et al. 2011. Biology, 9th Edition. Pearson. • Raven and Johnson. 2002. Biology, 6th Edition. McGraw-Hill, Boston, MA.
Other specialties	