

MODULE HANDBOOK

Course:	General Biology II (Practical)
Module Level:	Undergraduate
Code:	BID106
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	2 nd / First Year
Module coordinator(s):	Dwi Kusuma Wahyuni, S.Si, M.Si
Lecturer(s):	Dr. Sucipto Hariyanto, DEA
Language:	Bahasa Indonesia
Classification within the Curriculum	Compulsory Course / Elective Course
Teaching format / class hours per week during semester:	2 hours of laboratory work (50 min / hours)
Workload:	2 hours of doing worksheet and pretest preparation , 2 hours of laboratory work, 2 hours of group discussion, searching literature and writing report, 13 weeks per semester, and total 78 hours per semester ~ 2.6 ECTS *
Credit Points:	1
Requirement(s):	(BID104) General Biology I (Practical)
Learning Goals/Competencies:	<p>General Competence (Skill) : Students can practice basic skill of biology experimental correctly related to photosynthesis, morphology cell analysis and animals and plants tissues by using microscope, their structure, make a preparation, and analyzed transport system for organism.</p> <p>Specific Competence :</p> <ol style="list-style-type: none"> 1. Able to observe the process of respiration produces CO₂ and heat qualitatively and quantitatively with a simple experiment, prove that photosynthesis produces starch and oxygen, 2. Able to compare the differences and similarities of morphology and anatomy of plants and animals using microscope that live in different habitats, prove fermentation is an aerobic obligate and fermenting an aerobic facultative, 3. Able to make preparations chromosome giant salivary gland chironomous , can prove water and solute transport in plants, can describe the mechanism of adaptation of an organism on the environment hypoosmotic and hiperosmotic.
Contents:	The introduction of the microscope; protoplasm activity; reproductive cells; plant tissue; animal tissues; photosynthesis; respiration; organs and organ systems of plants; organs and organ systems of animals
Soft Skill Attribute:	Effort and organization
Study/Exam Achievements:	<p>Students are considered competent and eligible to pass the course upon obtaining at least 55</p> <p>The final value is calculated as follows: 35%Final practical work examination; 10% Soft Skill; 30% Reports; 25%Pre-test</p>

	<p>Final index is defined as follows</p> <p>A : 75 - 100</p> <p>AB : 70 - 74.99</p> <p>B : 65 - 69.99</p> <p>BC : 60 - 64.99</p> <p>C : 55 - 59.99</p> <p>D : 40 - 54.99</p> <p>E : 0 - 39.99</p>
Learning Methods:	Experiment in Laboratory Discussion Structured role models
Forms of Media:	Laboratory equipments, white board, structured models and microscope
Literature(s):	<ol style="list-style-type: none"> 1. Campbell, N.A, Reece, J.B . 2000. Biologi. Erlangga. 2. Mader, Silvia S. 1985 . Biology : Evolution, Diversity, and Environment. Brown Publishers. USA
Notes:	<p>*Total ECTS = $\{(\text{total hours workload} \times 50 \text{ min}) / 60 \text{ min}\} / 25 \text{ hours}$</p> <p>Each ECTS is equals with 25 hours</p>