Module Descriptions

Module designation	Mycology *Mikologi*
Course Code	8420502115
Semester/Term	6th/ third year
Person responsible for the module	Prof. Dr. Isnawati, M.Si. Prof. Dr. Mahanani Tri Asri, M.Si. Guntur Trimulyono, S. Si., M.Sc.
Language	Bahasa Indonesia (Indonesian Language)
Relation to curriculum	Elective Course
Teaching methods	Lecture
Workload	Contact hours: 2 x 50 minutes lectures, Private study: 2 x 60 minutes structured activity, 2 x 60 minutes individual activity Total 79.33 hours per semester ~ 3.18 ECTS**
Credit Point	2 CU (3.18 ECTS)
Required and recommended prerequisites for joining the module	Microbiology
Module Objectives/intended learning outcomes	Knowledge 1. Able to demonstrate basic knowledge of mycology to analyze current biological issues related to the diversity of fungi in Indonesia *(Knowledge)* 2. Able to apply knowledge and technology to solve problems related to functions and their diversity both in laboratories and in real practices that support the profession and / or entrepreneurship *(Knowledge)* 3. Able to design and conduct experiments in the field of mycology, manage, analyze, interpret, document, and store research data, to manage the diversity of fungi resources in Indonesia *(Specific Competences)* 4. Able to apply transferable skills in biology to develop ecopreneurship (eco-innovation, eco-opportunity, eco-commitment) *(Specific Competences)* 5. Able to work independently and collaboratively, and be responsible, in completing various tasks related to research and cultivation of edible mushrooms in the classroom, in the laboratory, and in the field *(Attitude and Social)*

<table>
<tr><td>Content</td><td>This course examines the concept of mycology (yeast and molds), which includes the introduction of terms used in learning fungi, classification of fungi with various basic types of classification, cellular mucus fungi, plasmodial mucus fungi, aquatic fungi which include Oomycotina and Chytridiomycotina, terrestrial fungi. which includes Zygomycotina, Ascomycotina, Basidiomycotina and Deuteromycotina from the aspects of diversity, reproduction, ecology, roles, and cultivation methods. In this course, several symbiosis of mutualism related to fungi such as lichen and mycorrhizae were also studied and also practiced research related to fungi such as succession of fungi in various media / environments. This subject is presented in the form of lectures and practical experiences of active student-based edible mushroom cultivation to strengthen the concept of fungi.</td></tr>
<tr><td>Examination forms</td><td>Written exams</td></tr>
<tr><td>Study and examination requirements</td><td>Study Requirement

Attendance: students must attend at least 75% of the lectures to be eligible for the final examination.

Study examination

The final grade (NA) is calculated based on the following ratio:

<table>
<tr><td>Assessment Components</td><td>Percentage of contribution</td></tr>
<tr><td>Participation</td><td>20%</td></tr>
<tr><td>Assignment</td><td>30%</td></tr>
<tr><td>Mid-semester test</td><td>20%</td></tr>
<tr><td>Final semester test</td><td>30%</td></tr>
</table>
Grade conversion of 0-100 scale into 0-4 scale is set as below:
<table>
<tr><td>Letter</td><td>Number</td><td>Grade Interval</td></tr>
<tr><td>A</td><td>4,00</td><td>85 ≤ A ≤ 100</td></tr>
<tr><td>A-</td><td>3,75</td><td>80 ≤ A- < 85</td></tr>
<tr><td>B+</td><td>3,50</td><td>75 ≤ B+ < 80</td></tr>
<tr><td>B</td><td>3,00</td><td>70 ≤ B < 75</td></tr>
<tr><td>B-</td><td>2,75</td><td>65 ≤ B- < 70</td></tr>
<tr><td>C+</td><td>2,50</td><td>60 ≤ C+ < 65</td></tr>
<tr><td>C</td><td>2,00</td><td>55 ≤ C < 60</td></tr>
<tr><td>D</td><td>1,00</td><td>40 ≤ D < 55</td></tr>
<tr><td>E</td><td>0,00</td><td>0 ≤ E < 40</td></tr>
</table>
</td></tr>
<tr><td>Reading List</td><td>1. Gnanam R.C., 2013 Introduction to Mycology. New Delhi. J.C Pillai.</td></tr>
</table>

	2. Isnawati. 2013. *Mikologi.* Surabaya: Jurusan Biologi FMIPA UNESA 3. Ostry, M.E., Neil A.A., Joseph, G.O., 2011. Field Guide to Common Macrofungi in Eastern Forests and Their Ecosystem Functions. USA: U.S. Frest Service 11 Campus BLVD Suite 200 Newtown Square PA 19073. 4. Samanta, I., 2015. Micology Veterinary, Journal of the American Veterinary Medical Association. Springer. 5. Schwab, A., 2012. Mushrooming with Confidence. New York: Skyhorse Publishing.