Module Descriptions

Module designation	Applied Microbiology *Mikrobiologi terapan*
Course Code	8420502116
Semester/Term	7th Semester
Person responsible for the module	Guntur Trimulyono, S.Si., M.Sc. Prof. Dr. Mahanani Tri Asri, M.Si. Lisa Lisdiana, Ph.D. Dr. Pramita Yakub, M.Pd.
Language	Bahasa Indonesia (Indonesian language)
Relation to curriculum	Elective course
Teaching methods	Lecture
Workload	1 x 50 minutes lectures 1 x 50 minutes structured activity, 1 x 60 minutes individual activity
Credit Point	2 CU(3.18 ECTS)
Required and recommended prerequisites for joining the module	Microbiology
Module Objectives/intended learning outcomes	After taking this course, students will be: 1. Have insight about the application of microbiology concepts in various fields 2. Able to design activities to solve life's problems using microbiological approach 3. Have an entrepreneurial spirit related to applied microbiology material that can be developed and applied as an entrepreneur 4. Design and carry out investigations related to applied microbiology
Content	Studies on the application of microbiological concepts in various fields including health, food, industry, animal husbandry, agriculture, environment, and biological control. This course is presented in the form of theory and practice
Study and examination requirements and forms of examination	Students are eligible for the final semester test if they have at least 75% attendance in class. The final grade (NA) is calculated based on the following ratio:

Assessment Components	Percentage of contribution
Participation	20%
Assignment	30%
Mid-semester test	20%
Final semester test	30%

Grade Conversion of 0-100 scale into 0-4 scale is set as below:

Letter	Number	Grade interval
A	4.00	85 ≤ A ≤ 100
A-	3.75	80 ≤ A- <85
B+	3.50	75 ≤ B+ < 80
B	3.00	70 ≤ B < 75
B-	2.75	65 ≤ B- < 70
C+	2.50	60 ≤ C+ < 65
C	2.00	55 ≤ C < 60
D	1.00	40 ≤ D < 55
E	0.00	0 ≤ E < 40

Reading List

1. Budiyanto, M. A. K. 2002. Mikrobiologi Terapan. Malang: Universitas Muhammadiyah Malang.
2. Madigan, M.T., J.M. Martinko, D.A. Stahl, dan D.P. Clark. 2012. Biology of Microorganism. Boston: Pearson.
3. Tortora, G. J., B. R. Funke, dan C. L. Case. 2007. Microbiology An Introduction. San Fransisco: Addison Wesley Longman, Inc.
4. Asri, M. T., dan G. Trimulyono. 2011. Petunjuk Praktikum Mikrobiologi Dasar dan Terapan. Surabaya: University Press Unesa.