

Module Handbook

Module Name:	General Microbiology (Practical)
Module Level:	Bachelor
Abbreviation, if applicable:	BIM203
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	3rd / second Year
Module coordinator(s):	Tri Nurhariyati, S.Si., M.Kes
Lecturer(s):	Dr. Ni'matuzahroh
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / Elective Studies
Teaching format / class hours per week during semester:	2 hours laboratory work (50 min / hours)
Workload:	2 hours doing worksheet and pretest preparation, 2 hours laboratory work, 2 hours group discussion, searching literature and writing report, 13 week per semester, and total 78 hours per semester ~ 2.6 ECTS *
Credit Points:	1
Requirements:	General Microbiology
Learning goals/competencies:	<p>General Competence(skill): Students are able to conduct scientific research by using the provision of practical microbiology, explains the principles of basic principles that are applied in practical microbiology, working groups in conducting and completing tasks in the lab microbiology, and work and practice preparation labs, methods of cultivation and quantification and identification and characterization of microbes with correct.</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Understand the technique of sterilization 2. Understand transfer technique microbial cultures aseptically 3. isolation of microbes from a mixture 4. Determine the characteristics of microbial 5. Determine the number and size of microscopic microbes
Content:	Sterilization techniques, media and how media creation, transfer technique culture of microbes in aseptic isolation of microbes from a mixture, the characteristics of microbial, coloring techniques, determining the number and size of microbes are microscopic, the curve of microbial growth, environmental influences on the growth of microbes, test physiological microbes, fermentation, microbial identification.
Soft skill	Discipline and the ability to argue
Study/exam achievements:	Students are considered to be competent and pass if at least get 55% of maximum mark of the exams (pretest + UAP), and laboratory works. Final score (NA) is calculated as follow: 60% daily value + 40% UAP.

	(Daily value = 50% pretest + 25% experiment + 25% report). Table Value Graduation A: 100 > NA ≥ 75 AB: 74,9 ≥ NA ≥ 70 B: 69,9 ≥ NA ≥ 65 BC: 64,9 ≥ NA ≥ 60 C: 59,9 ≥ NA ≥ 55 D: 54,9 ≥ NA ≥ 40 E: 39,9 ≥ NA
Learning Methods	lecture, discussion, structured activities (individual)
Forms of Media:	Slides and LCD projectors, whiteboards
Literature:	<ol style="list-style-type: none"> 1. Adams, R.M. 1990. <i>Mikrobiologi Fundamental and Application</i>. McMilan Publishing Company, N.Y. 2. Pelzar, M.J., dan . Chan, E.C.S. 1981, <i>Element of Microbiology</i>, McGraw Hill International Book Co. 3. Schlegel, H.G., dan Schmidt, K. 1964. <i>Mikrobiologi Umum</i>, Gajah Mada University Press.
Notes:	*Total ECTS = {(total hours workload x 50 min) / 60 min } / 25 hours Each ECTS is equals with 25 hours