

## Module Handbook

Module Name:	<b>General Microbiology</b>
Module Level:	Bachelor
Abbreviation, if applicable:	BIM201
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	3th/ Third Year
Module coordinator(s):	Dr. Ni'matuzahroh
Lecturer(s):	Dr. Ni'matuzahroh
Language:	Bahasa Indonesia
Classification within the curriculum	Elective Course
Teaching format / class hours per week during semester:	2 hours lectures (50 min / hour)
Workload:	2hours lecture, 2 hours individual activitiesand laboratory work, 13weeks per semester, and total 78hours per semester ~ 2.6 ECTS *
Credit Points:	2 SCU
Requirements:	General Biology II
Learning goals/competencies:	<p><b>General Competence (knowledge):</b> Students are able to plan research in the fields of microbiology, explains the basic principles of microbiology to another biologist, developed an interest in the field of microbiology, and explains the basic concepts of microbiology correctly</p> <p><b>Specific Competence:</b></p> <ol style="list-style-type: none"> <li>1. Understand the benefits of microbiology</li> <li>2. The microbes concept: microbial growth and formualtion medium</li> <li>3. To make understanding in the technique of sterilization</li> <li>4. Explaine the Microbial metabolism and genetic</li> <li>5. Explaine the morphological and anatomical structure of the bacterial cell; fungi and viruses</li> </ol>
Content:	History and microbiological benefits, an overview of microbes, media and microbial growth, sterilization and disinfectant, microbial metabolism and microbial genetics, morphological and anatomical structure of the bacterial cell; fungi and viruses.
Attribut soft skill	Disciplineand ability to argue
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 55 of maximum mark of the exams (UTS dan UAS), and structured activities (group discussion).</p> <p><b>Final score is calculated</b> as follow: Assignment (20%), Quiz (10%), UTS (30%), UAS (30%), Soft skill (10%)</p> <p>Final index is defined as follow: A : 75 - 100 AB : 70 - 74.99</p>

	B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99
Forms of Media:	Slides and LCD projectors, whiteboards
Learning Method	Lecture, discussion, structured activities (individual)
Literature:	<ol style="list-style-type: none"> <li>1. Adams, R.M. 1990. <i>Mikrobiology Fundamental and Application</i>. McMilan Publishing Company, N.Y.</li> <li>2. Pelzar, M.J., dan . Chan, E.C.S. 1981, <i>Element of Microbiology</i>, McGraw Hill International Book Co.</li> <li>3. Schlegel, H.G., dan Schmidt, K. 1964. <i>Mikrobiologi Umum</i>, Gajah Mada University Press.</li> </ol>
Notes:	*Total ECTS = {(total hours workload x 50 min ) / 60 min } / 25 hours <b>Each ECTS is equals with 25 hours</b>