220221652 General Microbiology

Module Name	**General Microbiology**
Module Level, if applicable	Basic
Code if Applicable	220221652
Subtitle, if applicable	-
Courses, if applicable	220221652 General Microbiology
Semester(s) in which the module is taught	2nd
Person responsible for the module	Afifa Husna, STP., MTP., M.Sc
Lecturer	Sri Winarsih, STP., MP.
Language	Indonesian
Relation to curriculum	Compulsory Course for undergraduate program in the Food Technology Department, Faculty of Agriculture and Animal Science
Type of teaching	Lecture, project, practicum
Workload	• Lecture: 2 SKS X 50 minutes X 16 weeks • Practicum: 1 SKS x 170 minutes x 16 weeks • Project: 2 SKS X 60 minutes X 16 weeks • Independent learning: 2 sks X 60 minutes X 16 weeks
Credit points	3 SKS X 1.5 = 4.5 ECTS
Requirements according to the examination regulations	1. Registered in this course 2. Minimum 80% attendance in this course
Recommended prerequisites	-
Module Objectives (Intended learning outcomes)	On completion of this course, students should be able to: • Understand and explain the structure, growth, and division of microorganisms' cells • Understand and explain the genetics and metabolism of microorganisms • Understand and explain the microbial applications in health, industrial, and food sector

Module Content	The General Biology course provides knowledge and understanding of matters related to biology, such as basic concepts of biology, cells and the organization of the materials that make up life, the basics of genetics and the formation of new generations, mechanisms of evolution, and the diversity of organisms, structure and function of plant organs. and animals, as well as the behaviour of organisms and relationships with their environment.
Study and examination requirements and forms of examination	**Cognitive:** Midterm exam, Final exam, Quizzes, Report of Practicum, Assignments **Affective:** Assessed from the element /variables achievement, namely (a) Contributions (attendance, active, role, initiative, and language), (b) Being on time, (c) Effort.
Media employed	Classical teaching tools with whiteboard and PowerPoint presentation, sets of practicum tools
Recommended Literature	**A. Compulsory** 1. Tortora, G. J., Case, C. L., Bair III, W. B., Weber, D., & Funke, B. R. 2004. Microbiology: an introduction. 2. Brock, T. D., Madigan, M. T., Martinko, J. M., & Parker, J. 2003. Brock biology of microorganisms. Upper Saddle River (NJ): Prentice-Hall, 2003. **B. Option** 1. Videos from YouTube related to microbiology 2. National and international journals relate to microbiology
Date of Last Amendment	22nd April 2022