

MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-2006
Module designation	Microbiology	
Semester in which the module is taught	2	
Persons responsible for the module	1. Dr. Mia Miranti Rustama 2. Prof. Ratu Safitri 3. Prof. Nia Rossiana 4. Asri Peni Wulandari, Ph.D 5. Dr. Keukeu Kaniawati Rosada 6. Febri Doni, Ph.D 7. Yolani Syaputri, Ph.D	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course	
Teaching methods	Lectures and discussions	
Workload	Total workload : 8160 minutes = 136 hour Lecture and discussion : 3 x 50 minutes x 16 week = 2400 minutes = 40 hour Exercises : 3 x 60 minutes x 16 week = 2880 minutes = 48 hour Self-study : 3 x 60 minutes x 16 week = 2880 minutes = 48 hour	
Credit points	3.00 (5.43 ECTS)	
Required and recommended prerequisites for joining the module	Basic biology	
Module objectives/intended learning outcomes	1. Able to master knowledge insights on the basic concepts of microbiology (history, cell structure and function, metabolism, genetics), microorganism diversity, microorganism control, benefits and impacts of microorganisms in the environment. 2. Able to use software, basic instruments and standard methods for the analysis of microorganisms in general 3. Able to document and store work data and able to complete tasks in groups and independently	
Contents	This course covers knowledge of the basic concepts of microbiology (history, cell structure and function, metabolism, genetics), diversity of microorganisms, control of microorganisms, the benefits and impacts of microorganisms in the environment, the use of software, basic instruments and standard methods for the analysis of microorganisms in general and how to document, store and analyze work data and complete assignments in groups and independently.	
Examination forms	Pretest, Posttest, Quiz, Midterm exam, Assignment, and Final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on pretest (5%), posttest (5%), quiz (15%), midterm exam (25%), assignment (20%), and final exam (30%)	
Reading lists	1. Michael T. Madigan, John Martinko, Thomas Brock, Paul Dunlap, David P. Clark, 2009. Brock Biology of Microorganisms. Pearson/Benjamin Cummings. 1061 page 2. Amit Arora · 2021. Textbook of Immunology, Microbiology and Parasitology Books. Penerbit:B. Jain Publishers Pvt. Limited. 483 page	