


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D0042
Module designation	Virology	
Semester(s) in which the module is taught	5 or 6	
Person (s) responsible for the module	1. Dr. Mia Miranti Rustama 2. Prof. Dr. Ratu Safitri 3. Yolani Syaputri, Ph.D	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning	
Workload	Total workload : 8160 minutes = 136 hours Lectures, discussions, cooperative learning, and inquiry learning : 3 x 50 minutes x 16 weeks = 2400 minutes = 40 hours Exercises : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours Self-study : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours	
Credit points	3,00 (5,43 ECTS)	
Required and recommended prerequisites for joining the module	Microbiology	
Module objectives/intended learning outcomes	1. Able to understand history and definition of viruses 2. Able to explain molecular virus detection and methods 3. Able to explain infection and prevention 4. Able to classify epidemiology of viruses	
Contents	This course covers knowledge of virus science (virology), history of discovery, definition, classification, genomic and molecular viruses, virus interactions with the host, virus isolation and culture techniques, viral immunology, vaccines, clinical diagnosis of viruses in bacteria, plants, invertebrates and vertebrates, viral ecology and viral epidemiology, the impact of viruses on the environment.	
Examination forms	Quiz, midterm exam, assignment, and final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. The final grade is evaluated based on Pre-test (20%), Post-test (10%), Assignment (15%), midterm exam (25%), and final exam (30%).	
Reading lists	1. Chiu, W., R.M. Burnett, and R.L. Garcea. 1997. Structural biology of viruses. Oxford: Oxford University Press. 2. Specter, S., and G. Lancz. 1992. Clinical Virology Manual. New York: Elsevier 3. Voyles, B.A. 2002. The Biology of Viruses. Second Edition. Boston: Mc Graw Hill 4. Carter, J and V. Saunders, 2013. Virology Principles And Application. Willey and sons. 300 halaman 5. Nicholas H. Acheson, 2007. Fundamentals of Molecular Virology. Wiley and sons. 528 halaman	