MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE : D10D-4008
Module designation	Aquatic Ecology	
Semester in which the module is taught	4	
Persons responsible for the module	 Dr. Keukeu Kaniawati Rosada Hikmat Kasmara, Drs, MS Prof. Sunardi Dr. rer. nat. Tri Dewi Kusumaningrum Pribadi 	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory Course	
Teaching methods	Lectures, Discussions, and Collaborative learning	
Workload	Total workload : 8160 minute = 136 hour	
	Lecture, discussion, and collaborative learning: 3 x 50 minute x 16 week = 2400 minute = 40 hourExercises: 3 x 60 minute x 16 week = 2880 minute = 48 hourSelf-study: 3 x 60 minute x 16 week = 2880 minute = 48 hour	
Credit points	3.00 (5.43 ECTS)	
Required and recommended prerequisites for joining the module	General Ecology	
Module objectives/intended learning outcomes	 Able to explain the meaning of aquatic ecology Able to explain the classification and zoning of aquatic ecosystems Able to explain the physical and chemical properties of waters important for aquatic biota Able to explain the system concept in aquatic ecology Able to explain the microbial loop Able to explain aquatic animal bioecology Able to explain aquatic plant bioecology Able to explain water quality assessment and biological indicators Able to explain current aquatic environmental issues 	
Contents	The Aquatic Ecology course studies the productivity of a body of water (fresh and/or marine), including chemical, physical, and freshwater parameters. The emphasis of the course is mainly on aquatic biotas such as plankton, nekton, and benthos and their relation to physical-chemical parameters.	
Examination forms	Quiz, Midterm exam, Assignment, and Final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (25%), midterm exam (25%), assignment (25%), and final exam (25%)	
Reading lists	 Wetzel, R.G. 2001. Limnology: Lake and River Ecosystems. Third Edition.Academic Press Dash, M. C., & Dash, S. P. (2009): Fundamentals of Ecology (3rd ed.), Tata McGraw-Hill Education Private Limited, New Delhi. M. Begon, R.W. Howarth & C.R. Townsend (2014): Essentials of Ecology (4th ed). Sigee, DC. 2005. Freshwater Microbiology: Biodiversity and Dynamic Interactions of Microorganisms in the Aquatic Environment. Manchester: John Wiley & Son, Ltd. 	