

MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-60203
Module designation	Limnology	
Semester in which the module is taught	5	
Person(s) responsible for the module	<ol style="list-style-type: none"> 1. Prof. Sunardi 2. Dr. rer. nat. Tri Dewi K. Pribadi 3. Dr. Keukeu Kaniawati Rosada 	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning	
Workload	<p>Total workload : 5440 minutes = 90.67 hours</p> <p>Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours</p> <p>Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p> <p>Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p>	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	General Ecology Freshwater Ecology	
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Be able to explain the properties of water, the classification of lakes and reservoirs, and the movement of water in the lake 2. Be able to explain the river 3. Able to classify of aquatic organisms 4. Able to illustrate trophic status and eutrophication 	
Contents	Limnology studies fresh waters including lakes, wetlands, groundwater, and rivers. Environmental threats to these systems will also be discussed. Students are expected to be able to integrate multidisciplinary concepts to understand how water systems function.	
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 Quizzes (25%), Assignments (25%), midterm exam (25%), and final exam (25%).	
Reading lists	<ol style="list-style-type: none"> 1. Wetzel, R.G. 2001. <i>Limnology: Lake and River Ecosystems</i>. Third Edition. Academic Press 2. Dash, M. C., & Dash, S. P. (2009): <i>Fundamentals of Ecology</i> (3rd ed.), Tata McGraw-Hill Education Private Limited, New Delhi. 3. M. Begon, R.W. Howarth & C.R. Townsend (2014): <i>Essentials of Ecology</i> (4th ed). 4. Sigeer, DC. 2005. <i>Freshwater Microbiology: Biodiversity and Dynamic Interactions of Microorganisms in the Aquatic Environment</i>. Manchester: John Wiley & Son, Ltd. 	