MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES** **BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE:** **D10D- 4006**
Module designation	Terrestrial Ecology	
Semester in which the module is taught	4	
Persons responsible for the module	1. Prof. Parikesit, Ph.D 2. Dr. Teguh Husodo, MS 3. Drs. Tatang Hermawan, M.I.L 4. Dr. Susanti Withaningsih, M.Si 5. Nurullia Fitriani, S.Si, MT 6. Indri Wulandari., S. Si, M.I.L	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course	
Teaching methods	Student-Centered Learning, Project-based Learning, Collaborative Learning	
Workload	Total workload : 8160 minutes = 136 hours Lectures, Discussions, and Collaborative 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	General ecology	
Module objectives/intended learning outcomes	1. Students are able to explain the edaphic and climatic factors that influence terrestrial ecosystems. 2. Students are able to explain plant succession. 3. Students are able to relate animal biogeography. 4. Students are able to relate animal succession development. 5. Students are able to analyze the concept of built ecology in terrestrial ecosystems. 6. Students are able to identify and analyze issues in terrestrial ecology.	
Contents	1. Edaphic and climatic factors in terrestrial ecology 2. The origin of terrestrial vegetation: Plant succession 3. The history of terrestrial animal ecology 4. The development of animal succession 5. Types and characteristics of human-built vegetation 6. The dynamics of vegetation cover change in human-built ecosystems 7. Issues in terrestrial ecology	
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 (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%)
Reading lists	1. Odum, E dan Barrett, G.W. 2017. Fundamentals of Ecology. 5th Edition. Thompson. US 2. Chapin, F.S. , Matson, P.A., Vitousek, P. 2012. Principles of Terrestrial Ecosystem Ecology. Springer 3. Schulze, E., Beck, E., Müller-Hohenstein, K., Lawlor, D. dan Lawlor, G. 2005. Plant Ecology. Springer 4. Potter, T.D dan Colman, B.R. 2003. Handbook Of Weather, Climate, And Water : Dynamics, Climate,Physical Meteorology, Weather Systems, and Measurements. John Wiley and Sons. Canada 5. Budhu, M. 2011. Soil Mechanics And Foundations. John Wiley and Sons. Canada 6. Utomo, M. 2016. Ilmu Tanah Dasar-Dasar dan Pengelolaan. Kencana. Jakarta 7. Allaby, M. 2010. ECOLOGY: Plants, Animals, and the Environment. Facts On File, Inc.New York