MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES** **BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE:** **D10D-2001**
Module designation	General Ecology	
Semester in which the module is taught	2	
Persons responsible for the module	1. Dr. Keukeu Kaniawati Rosada 2. Dr. Susanti Withaningsih 3. Nurullia Fitriani, S.Si, MT 4. Dr. Indri Wulandari	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course	
Teaching methods	Cooperative learning, Inquiry learning, Problem-based learning, Project-based learning	
Workload	Total workload : 5440 minutes = 90.67 hours Lecture and discussion : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
Credit points	2.00 (3.62 ECTS)	
Required and recommended prerequisites for joining the module	Basic biology	
Module objectives/intended learning outcomes	1. Able to explain the levels of organization of life in population ecology, from communities to ecosystems to the biosphere 2. Able to explain the concept of population and the factors that influence population dynamics 3. Able to classify habitats and niches and their application in the distribution of organisms 4. Able to describe interactions between populations of predation, competition, and symbiosis 5. Able to conceptualize structure, function, and systems in ecology 6. Able to identify ecological issues such as climate change, habitat degradation, and biodiversity loss	
Contents	1. The spectrum of life organization in ecology from the population level to the biosphere 2. Habitats, ecological niches, and interactions between living things in communities 3. The concept of ecological systems in understanding ecosystem dynamics 4. Contemporary ecological issues in relation to environmental sustainability	
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	1. Dash, M. C., & Dash, S. P. (2009): Fundamentals of Ecology (3rd ed.), Tata McGraw-Hill Education Private Limited, New Delhi. 2. M. Begon, R.W. Howarth & C.R. Townsend (2014): Essentials of Ecology (4th ed). 3. Odum, E. P. (1971): Fundamentals of ecology (3rd ed.), W.B. Saunders Company, Philadelphia. 4. Urry, L.A., Cain, M.L., Wasserman, S.A., Mihorsky, P.V. dan Reece, J.B. (2016). Campbell Biology, 11th edition. Pearson. New York. 5. Ahad, Md & Ferdous, A. S. M & Ahad, Prof.Dr. Md. (2019). A Textbook Of Ecology.Himachal Publication. Bangladesh.	