

Module Descriptions

Module designation	Animal Ecology (course code MPB 3123)
Semester(s) in which the module is taught	5 th semester of Bachelor Programme in Biology
Person responsible for the module	Riyandi, S.Si., M.Si.
Lecture (s)	1. Dr. Junardi, S.Si., M.Si. 2. Ari Hepi Yanti, S.Si., M.Sc. 3. Riyandi, S.Si., M.Si. 4. Kartika Prabasari, M.Si.
Language	Indonesia
Names of other study programmes with which the module is shared	-
Relation to curriculum	Compulsory course
Teaching methods	Lecture, project discussion and practical sessions
Workload (incl. contact hours, self-study)	Total workload: 7.76 ECTS • Lecture: 26.6 hours (0.99 ECTS) • Assignment: 60.1 hours (2.23 ECTS) • Independent study: 56 hours (2.07 ECTS) • Practical sessions: ○ Labwork: 47.8 hours (1.77 ECTS) ○ Fieldwork: 18.99 hours (0.7 ECTS)
Credit points	3 credits
Required and recommended prerequisites for joining the module	Students have taken Wetland Biology (course code MPB 2108)

Module objectives/intended learning outcomes	Intended Learning Outcomes (ILO) Attitude (ILO-1) Having academic integrity, grounded in the principles of religion and Pancasila, is essential for contributing to the advancement of the nation and the state. Knowledge (ILO-2) Able to integrate and apply biological science and other scientific fields that support the development of biological science. General Skill (ILO-3) Able to collaborate effectively within a team and to communicate actively, both orally and in writing, in the domain of biology. Specific Skill (ILO-6) Able to apply biological methodology and use instruments by prioritising work safety and able to apply in the management of tropical wetland resources. Course Learning outcomes (CLO) CLO 5. Students are able to integrate various scientific disciplines, including chemistry, physics, mathematics, and information technology, which is fundamental to the advancement and support of biological sciences. CLO 11. Students are able to analyze the interactions among living organisms, ranging from the population level to the biosphere for understanding ecological dynamics. CLO 17. Students are able to collaborate within a team to successfully complete case studies or projects in the field of biology and to present the findings effectively. CLO 18. Students are able to systematically compile and communicate biological research findings based on valid data across various scientific communication formats, including scientific reports, articles, posters, and oral presentations. CLO 27. Students are able to operate biological instruments and methodologies by prioritising work safety in the observation and measurement of biological and environmental objects.
Content	The subject exposes students to the basic knowledge required to understand animal ecology principles. Students will be acquainted with the definition of ecology, its history, principles, and applied aspects of animal ecology, animal habitats and niches, food supply and foraging behavior, animal population and communities, and interaction between animals and their environment.
Examination forms	1. Theory 70% a. Midterm 25% b. Final Exams 25% c. Assignment 10% d. Group/Individual Activity 10% 2. Practical sessions 30% a. Activity/Report 15% b. Final Practical Test 15%
Study and examination requirements	75% attendance

Reading list	1. Begon M, Townsend CR. 2020. Ecology: From Individuals to Ecosystems, 5th Edition. Blackwell Publishing Ltd. Oxford. 2. Sher, AA & Molles, JR MC. 2022. Ecology: Concepts & Application 9th Ed. Mc Graw Hill LLC. New York. 3. Morrison, M. L., Brennan, L. A., Marcot, B. G., Block, W. M., & McKelvey, K. S. 2020. Foundations for advancing animal ecology. Johns Hopkins University Press. Maryland. 4. Fryxell, J. M., Sinclair, A. R. E., & Caughley, G. 2014. Wildlife ecology, conservation, and management (3rd ed.). Wiley-Blackwell. New Jersey. 5. Royama, T. 2021. Animal Population Ecology: An Analytical Approach (Ecology, Biodiversity and Conservation). Cambridge: Cambridge University Press. Cambridge.
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