Module Descriptions

Module designation	**Animal Ecophysiology** (course code MPB 1205)
Semester(s) in which the module is taught	7th semester of Bachelor Programme in Biology
Person responsible for the module	Ari Hepi Yanti, S.Si, M.Sc.
Lecture (s)	1. Ari Hepi Yanti, S.Si, M.Sc. 2. Diah Wulandari Rousdy, S.Si., M.Sc 3. Kartika Prabasari, S.Si, M.Si
Language	Indonesia
Names of other study programmes with which the module is shared	-
Relation to curriculum	Elective course
Teaching methods	Lecture, case discussion
Workload (incl. contact hours, self-study)	Total workload: 4.38 ECTS Lecture: 26,6 hours (0,99 ECTS) Assignment: 46.5 hours (1.72 ECTS) Self-study: 44.9 hours (1.67 ECTS) Self-study hours are estimation numbers of hours; each student will approach studying in different ways.
Credit points	2 credits
Required and recommended prerequisites for joining the module	Students have taken **Animal Physiology** (MPB 3226) and **Animal Ecology** (MPB 3123)
Module objectives/intended learning outcomes	***Intended Learning Outcomes (ILO)*** **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 ***Course outcomes (CO)*** **CO 8**. The ability to analyze the relationship between the structure and function of the cells, tissues, and organs that constitute living organisms **CO 14.** The ability to apply the principles of microbiology, zoology, and botany to facilitate the utilization of biological resources and the development of biologically-based products. **CO 17.** The ability to collaborate within a team to successfully complete case studies or projects in the field of biology and to present the findings effectively.
Content	The subject exposes students to the basic knowledge required to understand animal ecophysiology principles. Students will be acquainted with the scope of animal ecophysiology, the mechanism of stress, and adaptation of animals to their environment in terms of physiological processes.

Examination forms	Theory 100% (case study method) a. Midterm (written test) 25% b. Final Exams (written test) 25% c. Assignment (case report, presentation) 40% d. Student activity discussion 10%
Study and examination requirements	75% attendance
Reading list	1. Bradshaw D. 2003. *Vertebrate Ecophysiology*. Cambridge University Press 2. Campbell et al., 2003. *Biologi*. Jilid 3. Penerbit Gramedia. Jakarta 3. Handayani, dkk. (2021). Fisiologi Hewan. Widina Media Utama. 4. Willmer, P., Stone, G., & Johnston, I. A. (2005). Environmental Physiology of Animals (2nd ed.). Wiley-Blackwell. 5. Vernberg, W. B., & Vernberg, F. J. (Eds.). (2020). Environmental Physiology of Marine Animals. Springer.