THE MODULE HANDBOOK
FACULTY OF BIOLOGY

Animal Ecophysiology

Module code	BIO 50804
Module level	3rd year of Undergraduate Program in Biology
Abbreviation, if applicable	-
Sub-heading, if applicable	-
Courses included in the module, if applicable	-
Semester/term	Even
Module coordinator(s)	Dr. Slamet Widianto, S.Si., M.Sc.
Lecture(s)	1. Dr. Slamet Widianto, S.Si., M.Si. 2. Dr.biol.hom. Nastiti Wijayanti, M.Si. 3. Dra. Mulyati, M.Si. 4. Rahadian Yudho Hartantyo, S.Si., M.Sc.
Language	Indonesia
Classification within the Curriculum	Elective course
Teaching format/class hours per week during the semester	This course is organized into one class and planned to have 14 teaching weeks and 2 weeks of examination.
Workload	Estimated working hour: 7 hours/week.
Credit points	2-0 credits
Requirements	Ecology (BIO 30302), Animal Physiology (BIO 40801)
Learning goals/ competencies	1. Explain the process of cell homeostasis and homeostatic mechanisms and functions to support survival. Explaining the mechanism of translocation across the cell membrane material. 2. Explain aspects of physiology in the distribution and abundance of organisms. 3. Explaining the process of temperature regulation in living organisms. 4. Describes the process of physiological and behavioral responses of organisms in extreme environments.
Content	This course examines the physiological adaptations that permit survival of animals in the diverse range of environments they inhabit, and the regulatory mechanisms that ensure homeostasis in the face of environmental fluctuation.Will be studied as well as how

	internal and external factors influencing homeostatsis mechanism in organisms in survival and breeding in extreme environments or environmental pollution. In this course also will be reviewed about the physiology, anatomy, and behavioral adaptations of organisms in some environmental conditions, including the activities of hibernation, torpor, and estivasi.
Study/exam achievements	1. Midterm: 35% 2. Final examination: 40% 3. Quiz: 10% 4. Assignment: 15%
Forms of media	White board, computer, LCD
Literature	1. Bradshaw, D. 2003. Vertebrate Ecophysiology. Cambridge University Press. 2. Fregly M.J. and C.M. Blatteis. 1996. Handbook of Physiology: Environmental Physiology. Oxford University Press. 3. Louw, G.N. 1993. Physiological Animal Ecology. Longman & Scientific Technical. 4. Schmidt-Nielsen, K. 1997. Animal Physiology: Adaptation and Environment. Fifth Edition. Cambridge University Press. 5. Willmer, P., G. Stone, and I. Johnston. 2000. Environmental Physiology of Animals. Blackwell Science.