



FACULTY OF ANIMAL AND AGRICULTURAL SCIENCE

VETERANITY UNDERGRADUATE PROGRAM

Module Handbook

Module designation	Animal Physiology
Semester(s) in which the module is taught	2 th Semester
Person responsible for the module	Sugiharto, S.Pt., M.Sc., Ph.D.; Dr. Dra. Endang Widiastuti, M.Si.
Language	Indonesian, English
Relation to curriculum	Compulsory module for Animal Science Program
Teaching methods	Lecture, small group discussion, discovery learning; cooperative learning
Workload (incl. contact hours, self-study hours)	<ul style="list-style-type: none"> ✓ 340 minutes Lecture per week (class 100 minutes; Assignment 120 minutes; 120 minutes self study) ✓ 170 minutes Laboratory session ✓ 100 minutes Mid Term Exam in the eighth and Final Exam in the sixteenth week
Credit points	3 (lecture 2 and laboratory session 1)
Required and recommended prerequisites for joining the module	Biology
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> ✓ Internalizing academic value, norm and ethic; Showing attitude of being responsible of the duties in the expertise area independently ; Internalizing the spirit of independence, fight, and entrepreneurship ✓ Able to take the right decision in the context of solving the problems in the area of expertise, based on the information and data analysis ✓ Able to demonstrate the physiological process in livestock during the normal conditions ✓ Mastering the theoretical concept of animal physiology
Content	The course elaborates the basic principles of livestock physiology in the form of a mechanism for livestock to self-regulate so that the system contained in its body can play a role and function normally to support its life and development. These systems include the digestive, circulatory, endocrine, nervous, respiratory, excretory, reproductive, skeletal, muscular and integumentary systems.
Examination forms	Paper assignment; Self-study; Midterm exam; Final exam
Study and examination requirements	<ul style="list-style-type: none"> ✓ 75 % presence in the learning process ✓ 25 % midterm examination ✓ 25 % final examination ✓ 50 % (lab works; assignment; presentation)

Reading list

1. Cunningham dan Klein. 2007. Veterinary physiology 4th Ed. Saunders, Elsevier.
2. Soeharsono. Fisiologi Ternak. Widya Padjajaran, Bandung
3. Clarenburg, R. 1992. Physiological Chemistry of Domestic Animals. 1st Ed. Mosby-Year Book, St. Louis.
4. Frandson, R.D. 1996. Anatomi dan Fisiologi Ternak, Gadjah Mada University Press, Yogyakarta (Penerjemah : Srigandono, B. dan K. Praseno)
5. Goenarso, G. dan Suropto. 2003. Fisiologi Hewan. Pusat Penerbitan Univ. Terbuka, Jakarta
6. Heat, E. dan S. Olusanya. 1985. Anatomy and Physiology of Tropical Livestock. Longman, Singapore.
7. Nielsen, S.K. 1986. Animal Physiology, Adaptation and Environment, Cambridge University Press.
8. Praseno, K., Isroli, dan B. Soedarmoyo. 2003. Fisiologi Ternak. Fapet Undip, Semarang
9. Strukie, P.D. 1976. Avian Physiology , Springer Verlag
10. Wulangi, K.S. 1999. Prinsip-prinsip Fisiologi Hewan. FMIPA-ITB, Bandung