



FACULTY OF ANIMAL AND AGRICULTURAL SCIENCE

VETERANITY UNDERGRADUATE PROGRAM

Module Handbook

Module designation	Animal Reproduction
Semester(s) in which the module is taught	3 th Semester
Person responsible for the module	Dr. drh. Enny Tantini Setiatin, M.Sc.; Prof. Dr. Ir. Barep Sutyono, Dr. Ir. Yon Supro Ondho, M.S.; Ir. Daud Samsudewa, S.Pt., M.Si., Ph.D., IPM.
Language	Indonesian, English
Relation to curriculum	Compulsory module for Animal Science Program
Teaching methods	Lecture, small group discussion, self-directed learning; cooperative learning, contextual instruction, discovery 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; Animal Physiology
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, fact and data analysis ✓ Able to demonstrate the physiological process in livestock during the normal conditions ✓ Mastering the theoretical concept of animal reproduction
Content	The course studies the physiology and anatomy of reproductive organs including knowing the definition and role of reproductive hormones, the physiology of gamete cell formation followed by mating, fertilization, cleavage, implantation, pregnancy, fetal development, pregnancy detection and birth processes. Then also studied the factors that influence the reproduction process and efforts to increase the efficiency of livestock reproduction.
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	<ol style="list-style-type: none"> 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, Gajah 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