



# FACULTY OF ANIMAL AND AGRICULTURAL SCIENCE

VETERANITY UNDERGRADUATE PROGRAM

## Module Handbook

<b>Module designation</b>	<b>Animal Breeding</b>
<b>Semester(s) in which the module is taught</b>	3 <sup>th</sup> Semester
<b>Person responsible for the module</b>	Prof. Ir. Edy Kurnianto, M.S., M.Agr. Ph.D; Prof. Dr. Ir. Barep Sutyono, M.S.; Dr. Ir. Sutopo, M.Sc; Asep Setiaji, S.Pt. M.Si., Ph.D.; Dr. Dela Ayu Lestari, S.Pt. M.Si.
<b>Language</b>	Indonesian, English
<b>Relation to curriculum</b>	Compulsory module for Animal Science Program
<b>Teaching methods</b>	Lecture, small group discussion, cooperative learning, discovery learning; Problem based learning
<b>Workload (incl. contact hours, self-study hours)</b>	<ul style="list-style-type: none"> <li>✓ 340 minutes Lecture per week (class 100 minutes; Assignment 120 minutes; 120 minutes self study)</li> <li>✓ 170 minutes Laboratory session</li> <li>✓ 100 minutes Mid Term Exam in the eighth and Final Exam in the sixteenth week</li> </ul>
<b>Credit points</b>	3 (lecture 2 and laboratory session 1)
<b>Required and recommended prerequisites for joining the module</b>	Genetic
<b>Module objectives/intended learning outcomes</b>	<ul style="list-style-type: none"> <li>✓ 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</li> <li>✓ 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</li> <li>✓ Able to demonstrate the elements of breeding for various types of livestock</li> <li>✓ Mastering the theoretical concept of poultry meat production</li> </ul>
<b>Content</b>	The course discusses the importance of knowledge of the relationship between breeding and animal production, between breeding with genetic and statistics, the economically production traits, genetic parameters of quantitative traits, and breeding strategy to improve the genetic quality of livestock
<b>Examination forms</b>	Paper assignment; Self-study; Midterm exam; Final exam
<b>Study and examination requirements</b>	<ul style="list-style-type: none"> <li>✓ 75 % presence in the learning process</li> <li>✓ 25 % midterm examination</li> <li>✓ 25 % final examination</li> <li>✓ 50 % (lab works; assignment;presentation)</li> </ul>

**Reading list**

1. Becker, W.A. 1984. Manual of Quantitative Genetics. Fourth Ed. Academic Enterprises, Pullman, Washington, USA.
2. Hardjosubroto, W. 1994. Aplikasi Pemuliaan Ternak di Lapangan. PT. Gramedia. Jakarta.
3. Kinghoon, B. J. Van der Werf, and J. Dekkers. 1999. Quantitative Genetics for New Technologies in Animal Breeding Course Note. Perth-Australia.
4. Kurnianto, E. 2009. Pemuliaan Ternak. CV. Graha Ilmu, Yogyakarta.
5. Lasley, J. F. 1978. Genetics of Livestock Improvement. Prentice-Hall of India. New Delhi.
6. Mash, G.L. and D.G. Fax. 1979. Beef Production and Management. Reston Publishing. Co, Inc.
7. Schmid, G.H and L.D. Van Vleck. 1974. Principles of Dairy Science. W.H. Freeman. Co.
8. Turner, H. N. And S. S. Y. Young. 1969. Quantitative Genetics in Sheep Breeding. Cornell University Press. Ithaca, New York.
9. Warwick, E.J., J.M. Astuti and W. Hardjosubroto. 1984. Pemuliaan Ternak. Gadjah Mada University Press. Yogyakarta.