



Course Module
Department of Animal Science
Faculty of Animal Science
Universitas Brawijaya

Module name	Animal Breeding Management
Module level	Undergraduate Program
Code	PEP60014
Subtitle	-
Courses	-
Semester(s)	6
Person responsible for the module	
Lecturer	Prof.Dr.Ir.Luqman Hakim,MS. Prof. Dr.Ir.Sucik Maylinda,MS. Prof.Dr.Ir.V.M.Ani Nurgiartiningsih,MSc. Prof.Dr.Ir.Gatot Ciptadi,DESS. IPU, ASEAN Eng. Dr.Ir.Agus Budiarto,MS. Dr Ahmad Furqon, SPt.
Language	Indonesian and English
Relation to curriculum	Compulsory/ Elective
Type of teaching, contact hours	Contact hours and class size separately for each teaching method: course, structured assignment, etc.
Workload	90.67 hours/semester
Credit points	2 SKS / 3.40 ECTS
Requirements according to the examination regulation	-
Recommended prerequisites	Animal Breeding
Module objectives/intended learning outcomes	ILO3: Developing awareness of Animal welfare and halal issue ILO-13: Capability to implement technology in Animal Science to increase productivity, efficiency, quality and sustainability based on breeding, nutrition, processing, management as well as to organize an entrepreneurship concept and a sustainable production system
	Objectives: This course encompasses the understanding the concepts of genetic and environmental interactions, data correction, animal superiority test, breeding programs, animal genetic conservation, and biotechnology applications in livestock breeding.

	Knowledge: Able to understand the principles of Animal Breeding Management
	Skills: cognitive- Able to discuss the importance of animal breeding management. Phsycomotoric- Able to calculate/analyze on the problems of animal breeding, particularly in Indonesia compared to the conditions of animals in the world
	Competences: Able to develop and evaluate the implementation of breeding programs in Indonesia
Content	<p>Courses:</p> <ol style="list-style-type: none"> 1. INTRODUCTION 2. Genetic and Environmental Interaction 3. Recording 4. Quantitative Data Correction for Ruminant and Non-Ruminant Animals 5. Animal Excellence Test 6. Breeding Program Scheme 7. Ruminant Animal Breeding Program in Tropical and Temperate Areas 8. Non-Ruminant Animal Breeding Program in Tropical and Temperate Areas 9. Genetic Conservation 10. New Breeding Formation 11. Biotechnology Applications in Animal Breeding
Study and examination requirements and forms of examination	<ol style="list-style-type: none"> 1. Midterm exam 2. Final term exam 3. Structured assignment and quiz 4. Group assignment <p>How to score:</p> <ul style="list-style-type: none"> - 35% Midterm Exam - 35% Final Exam - 15% Structured Assignments and quiz - 15% Group Assignments <p>A : 80 < Final Score ≤ 100 B+ : 75 < Final Score ≤ 80 B : 69 < Final Score ≤ 75 C+ : 60 < Final Score ≤ 69 C : 55 < Final Score ≤ 60 D : 50 < Final Score ≤ 55 D+ : 44 < Final Score ≤ 50 E : 0 < Final Score ≤ 44</p>
Media employed	Projector and screen, Zoom application, Google Classroom, e-book, WA Group

Reading list	<ol style="list-style-type: none"> 1. Dalton,D.C., 1981, An Introduction to Practical Animal Breeding,2-nd Eds., Granada Publishing limited, London. 2. Johansson, I. and J. Rendel, 1968, Genetic Aspects of Dairy Cattle Breeding, University of Illinois Press, Urbane. 3. Rege J.E.O. and Okeyo A.M. 2006. Improving our knowledge of tropical indigenous animal genetic resources. International Livestock Research Institute (ILRI). agtr.ilri.cgiar.org/Module/module2/Module2.htm (2 January 2010) 4. Falconer, DS. Introduction to Quantitative Genetics. 1989. Longman Scientific & Technical. New York. 5. Ciptadi, G. A. Budiarto, Aulani'am, Y Oktanella. 2019. Genetika dan Pemuliaan : Peternakan-Veteriner. UB Press. Malang. ISBN 978-602-432-950-1 6. Hakim, L. 2011. Dasar Pemuliaan Ternak. Darkah Media Malang. ISBN: 978-602-96331-5-3 7. Hardjosubroto, W. 1994. Aplikasi Pemuliabiakan Ternak di Lapangan. PT Gramedia Widiasarana Indonesia. Jakarta. 8. Lasley, J.F. 1978. Genetics of Livestock Improvement. 3 eds. Prentice-Hall of India, Private Ltd, New Delhi. 9. Maylinda, S. 2010. Buku Pengantar Pemuliaan Ternak. UB Press. Malang 10. Nurgartiningsih,V. M. A. 2017. Pengantar Parameter Genetik pada Ternak. UB Press, Malang. ISBN:978-602-432-331-8 11. Udo, H. 1992. Ruminant Breeding Strategies for the Tropics. Wageningen Agricultural University. The Netherlands. 12. Warwick, E. J., M. Astuti, and W. Hardjosubroto. 1990. Pernuliaan Ternak. Gadjah Mada University Press. Yogyakarta.
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