FACULTY OF AGRICULTURE

DEPARTMENT OF ANIMAL SCIENCE

UNDERGRADUATE PROGRAM **MODULE HANDBOOK**

Module designation	Livestock Agribusiness
Semester(s) in which the module is taught	5rd Semester
Person responsible for the module	Dr. Muhammad Daud, S.P., M.Si
Language	Indonesian, English
Relation to curriculum	Compulsory module for area of interest in Animal Praduction
Teaching methods	Lectures, audiovisual aids, discussions and Q&A sessions, and group assignments.
Workload (incl. contact hours, self-study hours)	✓ 100 minutes lecture and discussion per week ✓ 120 minutes structured tasks per week ✓ 120 minutes learn to be independent per week
Credit points	2 SKS = 3.2 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	✓ Explain the basics of working with animals and develop an interest in starting a business in this field. ✓ Think creatively when it comes to starting a business in this field. ✓ Classify different types of businesses in this field. ✓ Explain the technical aspects of working with animals.
Content	Students are expected to have a comprehensive understanding of livestock agribusiness and a strong desire to become entrepreneurs in the field. They should understand the mindset of a livestock entrepreneur, think creatively in developing livestock businesses, and be able to classify different types of livestock entrepreneurship. In addition, students should be able to explain livestock units and technical coefficients, analyze and manage the production factors used in livestock farming, and apply sound business ethics in the livestock industry. The ability to conduct cost analysis, manage a livestock business efficiently and economically, market livestock products, and generate innovative ideas for livestock business development are also essential competencies to be mastered.
Exams and assessment formats	Practice, work, independent study, quizzes, and Q&A sessions

Study and examination requirements	✓ Participatory Activities (Attitude and Discussion): 20% ✓ Project Results (Posters, Reports and Presentations): 30% ✓ Cognitive/Knowledge: Homework/Assignments: 5% Quiz: 5% Exam 1 (From 2nd Lecturer): 20% Exam 2 (From 3rd Lecturer): 20%
Reading list	1. Monteiro, A., Santos, S. R., & Gonçalves, P. (2021). *Precision agriculture for crop and livestock farming — Brief review.* Animals, 11(8), 2345. https://doi.org/10.3390/ani11082345. 2. Georgopoulos, V. P., Gkikas, D. C., & Theodorou, J. A. (2023). *Factors influencing the adoption of artificial intelligence technologies in agriculture, livestock farming and aquaculture: A systematic literature review using PRISMA 2020.* Sustainability, 15(23), Article 16385. https://doi.org/10.3390/su152316385. 3. Purnomo, S. H. (Sutrisno Hadi Purnomo), Emawati, S., Intan Sari, A., & Rahayu, E. T. (2020). *Manajemen Agribisnis Peternakan di Indonesia.* CV Indotama Solo, Surakarta. 4. Morgan-Davies, C., Tesnière, G., Gautier, J. M., Jørgensen, G. H. M., González-García, E., Patsios, S. I., ... & Caja, G. (2024). *Review: Exploring the use of precision livestock farming for small ruminant welfare management.* Animal. https://doi.org/10.1016/j.animal.2024.101233.