FACULTY OF AGRICULTURE
Department of Animal Science

UNDERGRADUATE PROGRAM

Module designation	Animal Nutrition
Semester(s) in which the module is taught	3rd semester
Person responsible for the module	Prof. Dr. Ir. Samadi, M.Sc
Language	Indonesia/English
Relation to curriculum	Compulsory module
Teaching methods	Lecture, discussion, project learning
Workload	• 100 minutes of lectures and discussion per week
Credit Poins	2 sks = 3.2 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	• Able to understand and explain the meaning and history of the development and role and relationship of nutritional science with other sciences such as genetics, nature, mathematics, livestock health, endocrinology and microbiology • Able to understand and explain in learning the distribution of food substances, using the proximate analysis method • Able to understand and explain the differences between monogastric and polygastric livestock, differences in nutritional digestion and differences in the activity of enzymes that digest • Able to understand and apply learning using the proximate analysis method • Be able to explain the history of the development and role of animal nutrition science as well as the relationship between nutrition science and other sciences. Such as genetics, nature, mathematics, livestock health, endocrinology and microbiology • Able to understand and master the division of food substances, analysis methods (proximate analysis and Van Soest analysis) and the function of these food substances • Able to understand and explain the differences in nutritional content in plants and animals and the percentage of nutritional content for each type
Content	he course provides a study the history and scope of nutritional science, animal and plant body composition, anatomy and physiology of livestock digestive organs, digestion and absorption processes, as well as appetite and its regulation

Exams and assesment formats	Essay, case analysis and oral presentation
Study and exanation requirements	20% participative activity 50% case project 5% quizzes 5% structured assignment 10% midterm examination 10% final examination
Reading list	McDonald, P., Greenhalgh, J. F. D., Morgan, C. A., Edwards, R. A., Sinclair, L. A., & Wilkinson, R. G. (2022). Animal nutrition (8th ed.). Pearson Education Limited. Reddy, D. V. (2025). Applied nutrition ruminants (4th ed.). CBS Publishers & Distributors Pvt. Ltd. Upreti, C. R. (2021). A textbook of animal nutrition and fodder production. Heritage Publications. Cheeke, P. R., & Dierenfeld, E. S. (2020). Comparative animal nutrition and metabolism (2nd ed.). CABI Publishing.