FACULTY OF AGRICULTURE

Department of Animal Science

UNDERGRADUATE PROGRAM MODULE HANDBOOK

Module designation	NUTRITION OF VARIOUS ANIMAL
Semester(s) in which the module is taught	*7th semester*
Person responsible for the module	Pro. Dr. Ir. Samadi, M.Sc
Language	Indonesian
Relation to curriculum	Compulsory module for Animal Science Program
Teaching methods	Lecture, lesson, case
Workload (incl. contact hours, self-study hours)	▪ 100 minutes of lecture and discussion per week ▪ 120 minutes of structured tasks per week ▪ 120 minutes of independent activity per week
Credit points	2SCH x (1.6) = 3.2 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	1. Able to explain various animals and potential animals, feed ingredients, and nutritional requirements for potential livestock, including poultry (quail and ostriches), and fish, both farmed and ornamental. 2. "Able to explain various feed sources, digestive systems, and nutritional requirements for various livestock (bees), protein-based nutrition for various livestock (BSF crickets, worms, etc.), and 3. the nutrition of various livestock (silkworms). 4. Able to explain various feed sources, digestive systems, and nutritional requirements for various animals (horses), deer, rabbits, and crocodiles. 5. Able to explain various feed sources, digestive systems, and nutritional requirements for various pets (cats, dogs), elephants, monkeys, orangutans, etc.), and wild animals (tigers, etc.).
Content	This course provide learning about understanding of the feed ingredients, and nutritional requirements for potential livestock, including poultry (quail and ostriches), fish (farmed and ornamental), various livestock (bees, BSF, crickets, worms, silkworms). Also various feed sources, digestive systems, and nutritional requirements for various pseudoruminant animals (horses, deer, rabbits), various pets (cats, dogs), elephants, monkeys, orangutans, etc.), and wild animals (tigers, etc.).
Exams and assessment formats	Essay, case study
Study and examination requirements	51,7 % case method 6,7 % quiz 16,7 % assignment 8,3 % midterm examination 16,7 % final examination

Reading list	Main References 1. Kidd, M. T., Tillman, P., Tillman, N. S., & Chrystal, P. (2023). *Precision feeding for optimizing poultry production*. *CABI Reviews*. 1 January 2023. 2. Phillips, C. J. C. (Ed.). (2024). *The encyclopedia of animal nutrition* (2nd ed.). CABI. 3. McDonald, P., Greenhalgh, J. F. D., Morgan, C. A., Edwards, R., & Sinclair, L. (2022). *Animal nutrition* (8th ed.). Pearson. 4. Reddy, D. V. (2025). *Principles of animal nutrition and feed technology* (3rd ed.). Oxford. 5. University of Bologna. (2024–2025). *Animal nutrition and feeding course syllabus*. University of Bologna. 6. Akintan, O., Gebremedhin, K. G., & Uyeh, D. D. (2024). Animal feed formulation—Connecting technologies to build a resilient and sustainable system. *Animals, 14*(10), 1497. https://doi.org/10.3390/ani14101497 7. All About Feed. (2024). Formulation redefined by science, tech and people—Feed Tech Expo report. *All About Feed*.