FACULTY OF AGRICULTURE
Department of Animal Science

UNDERGRADUATE PROGRAM

Module designation	Animal Husbandry Biochemistry
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 lecture 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 role of Biochemistry in the field of animal husbandry and its relationship with other sciences • Explain the synthesis process and role of hormones in metabolism and be able to analyze the role of antibiotics in animal cells and their relationship to cell metabolism • Able to understand basic knowledge of biochemistry and able to explain the process of digestion and absorption of nutrients in animals and changes in the form of nutrients from feed to the formation of end products, classification and role of enzymes in the digestive and metabolic processes of livestock, classification and role of enzymes in the digestive and metabolic processes of livestock • Able to explain and apply the science of animal husbandry biochemistry through research and community service to the community, and cooperation
Content	This course contains teaching materials to improve students ability to understand the biochemistry of livestock, both monogastric and ruminant
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	Voelt, D. Voelt, G.J. 2021. Biochemistry4th Ed. USA: John Willey & Sons. Zuprizal R. Et al. 2022. Nutrisi & Metabolisme Ternak Unggas. Deepublish Abbas, K.A. 2019. KARBOHIDRAT, Bahan Ajar Mata. Kuliah Biokimia, Program Studi Peternakan, universitas. Udayana. Rukmelia. 2023. Buku Ajar Biokimia Hasil Pertanian. Media Sains Indonesia.