FACULTY OF AGRICULTURE
Department of Animal Science

UNDERGRADUATE PROGRAM

Module designation	Practicum for Microbiology
Semester(s) in which the module is taught	2nd Semester
Person responsible for the module	Dr. Ir. Yurliasni, M. Sc
Language	Indonesia, English
Relation to curriculum	Compulsory module
Teaching methods	Lectures, lesson and case
Workload	✓ 170 minutes of laboratory work
Credit points	1 SKS = 1.6 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	✓ Capable of understanding occupational health and safety techniques well and operating microbiology laboratory equipment ✓ Capable of understanding sterilization and disinfection techniques, as well as isolating microorganisms and counting them quantitatively indirectly
Content	Microbiology is a compulsory course for Animal Husbandry students. This course aims to introduce and understand microbial cells, their types and varieties, growth, nutrient metabolism, energy metabolism, and the benefits and processes of microbial utilization in animal husbandry, both in feed processing and livestock products.
Exams and assesment formats	✓ Disciplined, able to work in a team and assignments
Study and exanation requirements	a. 10% participative activity b. 50% case project c. 15% midterm examination d. 25% final examination

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Reading list	Hanum, Z and Yurliasni. 2022. Mikrobiologi Pangan Hasil Peternakan. Syiah Kuala University Press, Banda Aceh. Nisak, Y. K., & Nurhayati, A. 2022. *Modul praktikum mikrobiologi pangan* [Buku ajar modul praktikum]. Nizamia Learning Center. ISBN 978-623-265-846-2 Nursita, I. W., et al. 2020. Biologi Peternakan. UB Press, Malang. Vertygo, S., et al. 2023. Aplikasi Mikrobiogi Dalam Peternakan. Syiah Kuala University Press, Banda Aceh.