



UNDERGRADUATE PROGRAM

Module designation	Practicum for Animal Husbandry Biochemistry
Semester(s) in which the module is taught	3 rd semester
Person responsible for the module	Prof. Dr. Ir. Samadi, M. Sc.
Language	Indonesia/English
Relation to curriculum	Compulsory module
Teaching methods	Lecture, lesson, case
Workload	<ul style="list-style-type: none">• 170 minutes of laboratory work
Credit Points	<ul style="list-style-type: none">• 1 sks (Lab works = 1) = 1.6 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<ol style="list-style-type: none">1. Students are able to test the qualitative and quantitative properties of carbohydrates such as the Molish Test, Benedict Test and Iodine Test.2. Students are able to test the qualitative and quantitative properties of protein tests: Millom test and Biuret test.3. Students are able to test the qualitative and quantitative properties of Fat. Tests: testing the chemical properties of fat and saponification number tests. Enzyme tests: Papain Test, Bromelain Test, and Enzyme Test
Content	<ul style="list-style-type: none">• Introduction to understanding the different types of carbohydrates• Explain how to perform a qualitative test for carbohydrates using the Molish test, Benedict test, and iodine test• Qualitative and quantitative properties of protein tests: Millom test and Biuret test.• Qualitative and quantitative properties of Fat. Tests: testing the chemical properties of fat and saponification number tests. Enzyme tests: Papain Test, Bromelain Test, and Enzyme Test
Exams and assessment formats	Disciplined, able to work together in a team and be active in class discussion.
Study and examination requirements	<ul style="list-style-type: none">• Reports (20%)• Exam (30%)• Attitude (20%)• Presence (10%)



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FACULTY OF AGRICULTURE

Department of Animal Science

Reading list

1. Voelt, D. Voelt, G.J. 2021. Biochemistry4th Ed. USA: John Willey & Sons
2. Zuprizal R. Et al. 2022. Nutrisi & Metabolisme Ternak Unggas. Deepublish
3. Abbas, K.A. 2019. KARBOHIDRAT, Bahan Ajar Mata. Kuliah Biokimia, Program Studi Peternakan, universitas. Udayana.
4. Rukmelia. 2023. Buku Ajar Biokimia Hasil Pertanian. Media Sains Indonesia