

Tárgytematika / Course Description

Basic animal nutrition and feeding

MENB_ÁTTA017

Tárgyfelelős neve /

Teacher's name: Dr. Zsédely Eszter

Félév / Semester: 2022/23/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/1/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the course is to offer a good foundation for the detailed livestock nutrition knowledge.

The following objectives were defined for the course:

- the terminology of animal nutrition
- analysis methods of nutrient content
- classification of feedstuffs
- feed conservation and processing
- diet formulation
- feed mixing

Animal physiology and organic chemistry knowledge are required.

TANTÁRGY TARTALMA / DESCRIPTION

Lectures

1. week Introduce to animal nutrition
2. week The role of water in nutrition
3. week Analysis of feed nutrient value
4. week Nitrogenous compounds in ruminants nutrition
5. week Lipids in animal nutrition
6. week Raw fiber for animals
7. week Energy metabolism
8. week Macro and micro minerals
9. week Classification of feedstuffs
10. week Feed conservation – silage, haylage
11. week Feed preparation and processing
12. week Feed mixing
13. week Sample collection, feed qualifying
14. week Nutrient metabolism

Exercises

1. week Animal digestion - repetition
2. week Dry matter calculation
3. week Nitrogenous compounds in monogastric nutrition
4. week Metabolizable protein calculation
5. week The role of carbohydrates in nutrition
6. week Energy value of feedstuffs
7. week Calculation of energy value
8. week Vitamins
9. week By-products in feeding
10. week Feed conservation – hay making
11. week Factors affecting feed consumption
12. week Diet formulation
13. week Visit in a feed analysis labor
14. week Summary of topics, exam guide

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Conditions of course acceptance: two successful exercise solution during the seminar.

Exam: at least 50% of total points is required for a successful written exam. Grades: 1 failed exam, 2 poor, 3 adequate, 4 good, 5 excellent.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

OBLIGATORY MATERIAL

Dublecz K. (2011): Animal nutrition (https://regi.tankonyvtar.hu/hu/tartalom/tamop425/0010_1A_Book_angol_04_takarmanyozastan/pr01.html)

Słupczyńska M. (2014): Rational livestock nutrition in rural areas (<https://issuu.com/tudas-alapitvany/docs/livenutrition-en>)

REFERENCED MATERIAL

Pond et al. (2005): Basic Animal nutrition and feeding