COURSE SYLABUS (Code: CN02601)
ANIMAL NUTRITION

1. General information

Course: Animal nutrition (CN02601)

Credits: 3 (Lecture: 2,5 – Practice: 0,5 – Self-study: 9,0)

Training program: Animal Science (Option 1: Animal production & Health, Option 2: Animal nutrition & Feed technology).

2. Expected learning outcomes (ELOs)

Notation	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledges		
K1	Analysis factors affecting feed quality to improve the quality of feed for animals.	ELO 2: **Analyze** factors affecting the animal breed production, nutrition, and animal health
K2	Determine the nutritional requirement of livestock animals to formulate rations for preventing nutritional diseases	ELO 3: **Evaluate** the efficiency of animal breed production, nutrition and animal health
Skills		
K3	Evaluate the quality of ingredients and diets through different nutritional components	ELO 5: **Apply** effectively creative and critical thinking, and problem-solved skills to scientific research and professional practice
Ethics and attitudes		
K4	Comply with laboratory regulations for safe of using of equipment and chemical product	ELO 12: **Comply** with state law and specific regulations and professional ethics

3. Brief descriptions

Chapter 1: Water nutrition

Chapter 2: Protein and amino acid nutrition

Chapter 3: Vitamin nutrition

Chapter 4: Mineral nutrition

Chapter 5: Energy nutrition

Chapter 6: Energy and estimation of energy value of feeds

Chapter 7: Methods for determining the nutritional content of feed

Chapter 8: Nutrient requirements for maintenance

Chapter 9: Nutrient requirements for growth

Chapter 10: Feeding standards for reproduction

Chapter 11: Nutrient requirements for milk production

Chapter 12: Feeding standards (Definition of feeding standards, feeding standards for animals).

4. Learning methods

- Students read the textbooks and references by themselves,

- Participate in class discussion

- Practice

- E-learning: Find and look up references; do homework.

5. Assessment methods

- Grading scale: 10

- Average point: is the sum of the rubric scores multiplied by the weight of each rubric

    + Class participation: 10%

    + Mid-term test: 30%

    + Final examination: 60%

6. Student tasks

- Hard work: Students must attend enough hours (at least 75% of the class) in the class (follow the University's rule). Students should be active, ask questions if do not understand, join the discussion. If students cannot attend some lectures, they have to self-learning, searching the contents of these lectures, e-learning,...).

- Prepare before go to class: Students need to read textbook and reference book
- Practice: All students attending this module must participate in the practical content as required.
- Mid-term examination is notified in advance and students who are absent will not be tested again (except for illness, or acceptable reasons).
- Final exam according to current regulations.

7. Key academic staffs

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Communicate with key academic staffs: via email, phone and e-learning system.