

## COURSE SYLABUS (Code: CN02302) ANIMAL BIOCHEMISTRY

### 1. General information

Course: Animal Biochemistry (CN02302)

Credits: 2 (Lecture: 1,5 – Practice: 0,5 – Self-study: 6,0)

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
<b>Knowledge</b>		
K1	Explain metabolic and pathological processes in animal organism based on knowledge of animal biochemistry	ELO1: <b>Apply</b> the general knowledge of natural and social sciences and the understanding of contemporary issues to the field of livestock production
K2	Demonstrate the relationship between biochemical parameters and the nutrient requirements of animals	ELO 2: <b>Analyze</b> factors affecting the animal breed production, nutrition, and animal health
<b>Skills</b>		
K3	Show the roles, positions and compositions of compounds in animal organism	ELO 5: <b>Apply</b> effectively creative and critical thinking, and problem-solved skills to scientific research and professional practice
K4	Show the effect of biochemical parameters on nutrient requirements of animals through group discussion	ELO 6: <b>Coordinate</b> teamwork in professional activities to achieve objectives as a member or a manager
<b>Attitude</b>		
K5	Compliance with the rules and regulations on safety during working in the laboratory and ethical standards in the process of production and animal husbandry	ELO 12: <b>Comply</b> with state law and specific regulations and professional ethics

### 3. Brief descriptions

Chapter 1: Carbohydrate metabolism

Chapter 2: Lipid metabolism

Chapter 3: Protein metabolism

Chapter 4: Relationship between metabolic processes

Chapter 5: Hormon

Chapter 6: Membrane and membrane transportation

Chapter 7: Immunology

### 4. Learning methods

- Students read the textbooks and references by themselves,
- Participate in class discussion

- Find references, discuss
- 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

- Attendance: Students must attend at least 75% of the class and participate in class activities (discussion in class and on e-learning system, etc.)
- Practice: Students must attend all practice content
- Complete the mid-term test and the final examination.

### 7. Key academic staffs

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